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OM protein - protein search, using sw model

Run on: September 11, 2003, 03:20:09 ; Search time 21 Seconds
 (without alignments)
 592,352 Million cell updates/sec

Title: US-09-688-459-11

Perfect score: 1561

Sequence: 1 GPHEGGLHLPPSAPAPAPP.....LLDPPODATYFGAFKVQDID 294

Scoring table: BLOSSUM62

Gapop 10.0 , Gapext 0.5

searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : Issued_Patents_AA:*

1: /cgn2_6/ptodata/2/iaa/5A_COMB_pep:*

2: /cgn2_6/ptodata/2/iaa/5B_COMB_pep:*

3: /cgn2_6/ptodata/2/iaa/6A_COMB_pep:*

4: /cgn2_6/ptodata/2/iaa/6B_COMB_pep:*

5: /cgn2_6/ptodata/2/iaa/PC105_COMB_pep:*

6: /cgn2_6/ptodata/2/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	1561	100.0	294	3 US-09-996-139-11 Sequence 11, Appl
2	1561	100.0	294	3 US-09-996-5659-11 Sequence 11, Appl
3	1561	100.0	294	3 US-09-215-649A-11 Sequence 11, Appl
4	1561	100.0	294	3 US-09-577-780-11 Sequence 11, Appl
5	1561	100.0	294	4 US-09-466-496-11 Sequence 11, Appl
6	1561	100.0	294	4 US-09-871-856-11 Sequence 11, Appl
7	1561	100.0	294	4 US-09-871-291-11 Sequence 11, Appl
8	1554	99.6	316	2 US-09-841-842-7 Sequence 7, Appl
9	1554	99.6	316	3 US-09-99-362-2 Sequence 2, Appl
10	1554	99.6	316	4 US-09-05-521C-2 Sequence 2, Appl
11	1554	99.6	316	4 US-09-671-658A-2 Sequence 2, Appl
12	1554	99.6	317	3 US-09-99-139-13 Sequence 13, Appl
13	1326.5	85.0	317	3 US-09-99-139-13 Sequence 13, Appl
14	1326.5	85.0	317	3 US-09-99-139-13 Sequence 13, Appl
15	1326.5	85.0	317	3 US-09-215-649B-13 Sequence 13, Appl
16	1326.5	85.0	317	3 US-09-632-287A-10 Sequence 13, Appl
17	1326.5	85.0	317	4 US-09-577-780-13 Sequence 13, Appl
18	1326.5	85.0	317	4 US-09-577-800-13 Sequence 13, Appl
19	1326.5	85.0	317	4 US-09-466-496-13 Sequence 13, Appl
20	1326.5	85.0	317	4 US-09-871-856-13 Sequence 13, Appl
21	1326.5	85.0	317	4 US-09-871-856-13 Sequence 13, Appl
22	422	27.0	77	4 US-09-632-287A-10 Sequence 10, Appl
23	363	23.3	77	4 US-09-632-287A-11 Sequence 11, Appl
24	258.5	16.6	279	4 US-09-672-99C-3 Sequence 12, Appl
25	258.5	16.6	281	1 US-08-670-334-2 Sequence 13, Appl
26	258.5	16.6	281	3 US-08-884-031-1 Sequence 14, Appl
27	281	3	US-08-780-496-1 Sequence 15, Appl	

ALIGNMENTS

RESULT	1
US-09-996-139-11	; Sequence 11, Application US/09996139;
	; Patent No. 6017729
	; GENERAL INFORMATION:
	APPLICANT: Anderson, Dirk M.
	APPLICANT: Galimberti, Laurent
	APPLICANT: Marakovska, Eugene
	TITLE OF INVENTION: Receptor Activator of NF-kappaB
	NUMBER OF SEQUENCES: 19
	CORRESPONDENCE ADDRESS:
	ADDRESSEE: Immunex Corporation, Law Department
	STREET: 51 University Street
	CITY: Seattle
	STATE: WA
	ZIP: 98101
	COUNTRY: USA
	COMPUTER READABLE FORM:
	MEDIUM TYPE: Floppy disk
	COMPUTER: Apple Power Macintosh
	OPERATING SYSTEM: Apple Operating System 7.5.5
	SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
	CURRENT APPLICATION DATA:
	APPLICATION NUMBER: US/09/996,139
	FILING DATE: 22 DECEMBER 1997
	CLASSIFICATION:
	PRIOR APPLICATION DATA:
	APPLICATION NUMBER: USSN 60/064,671
	FILING DATE: 14 OCTOBER 1997
	PRIOR APPLICATION DATA:
	APPLICATION NUMBER: USSN 08/813,509
	FILING DATE: 07 MARCH 1997
	PRIOR APPLICATION DATA:
	APPLICATION NUMBER: USSN 08/772,330
	FILING DATE: 23 DECEMBER 1996
	ATTORNEY/AGENT INFORMATION:
	NAME: Perkins, Patricia Anne
	REGISTRATION NUMBER: 34,693
	REFERENCE/DOCKET NUMBER: 2851-A
	TELECOMMUNICATION INFORMATION:
	TELEPHONE: (206)587-0430
	TELEFAX: (206)233-0644
	INFORMATION FOR SEQ ID NO: 11:
	SEQUENCE CHARACTERISTICS:
	LENGTH: 294 amino acids
	TYPE: amino acid
	TOPOLOGY: linear
	MOLECULE TYPE: protein
	US-08-996-139-11

TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-215-649A-11

Query Match 100.0%; Score 1561; DB 3; Length 294;
Test Local Similarity 100.0%; Pred. No. 5e-153; Mismatches 0; Indels 0; Gaps 0;
Matches 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Query 1 GVPHEGPRLPAPSPAPAPPASRSMFLALIGLGQVVSIALELYFRAOMDRNRISE 60
Db 1 GVPHEGPRLPAPSPAPAPPASRSMFLALIGLGQVVSIALELYFRAOMDRNRISE 60
Oy 61 DSHCFYRILRHENADLQDSTSLESEDTLPSDCRRMKQAFGAVKELQHIVGPORFSGA 120
Db 61 DSHCFYRILRHENADLQDSTSLESEDTLPSDCRRMKQAFGAVKELQHIVGPORFSGA 120
Oy 121 PAMMEGSWLDVQAQRGKPEAQPAHLTINAASIPSGSHKVLTSSWHDRGWAKISMTLSN 180
Db 121 PAMMEGSWLDVQAQRGKPEAQPAHLTINAASIPSGSHKVLTSSWHDRGWAKISMTLSN 180
Oy 181 GKLRVNDGFYLYANICFRHETSGSYPTDQLQMVYVMTSICKIPSSHNLMGGSTRN 240
Db 241 WSGNSEFHYSINVGGFKLRAGEETSIQVSNPSLDPDODATFGAFKVQDID 294
Db 241 WSGNSEFHYSINVGGFKLRAGEETSIQVSNPSLDPDODATFGAFKVQDID 294
RESULT 4
US-09-577-780-11
; Sequence 11 Application US/09577780
; Patent No. 611929
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
Galibert, Laurent
Masaskovsky, Eugene
TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/577,780
FILING DATE: 24-MAY-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/995,659
FILING DATE: <Unknown>
APPLICATION NUMBER: USN 08/813,509
FILING DATE: 07 MARCH 1997
APPLICATION NUMBER: USN 08/772,330
FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2852-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:

LENGTH: 294 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-577-780-11

Query Match 100.0%; Score 1561; DB 4; Length 294;
Test Local Similarity 100.0%; Pred. No. 5e-153; Mismatches 0; Indels 0; Gaps 0;
Matches 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Query 1 GVPHEGPRLPAPSPAPAPPASRSMFLALIGLGQVVSIALELYFRAOMDRNRISE 60
Db 1 GVPHEGPRLPAPSPAPAPPASRSMFLALIGLGQVVSIALELYFRAOMDRNRISE 60
Oy 61 DSHCFYRILRHENADLQDSTSLESEDTLPSDCRRMKQAFGAVKELQHIVGPORFSGA 120
Db 61 DSHCFYRILRHENADLQDSTSLESEDTLPSDCRRMKQAFGAVKELQHIVGPORFSGA 120
Oy 121 PAMMEGSWLDVQAQRGKPEAQPAHLTINAASIPSGSHKVLTSSWHDRGWAKISMTLSN 180
Db 121 PAMMEGSWLDVQAQRGKPEAQPAHLTINAASIPSGSHKVLTSSWHDRGWAKISMTLSN 180
Oy 181 GKLRVNDGFYLYANICFRHETSGSYPTDQLQMVYVMTSICKIPSSHNLMGGSTRN 240
Db 241 WSGNSEFHYSINVGGFKLRAGEETSIQVSNPSLDPDODATFGAFKVQDID 294
Db 241 WSGNSEFHYSINVGGFKLRAGEETSIQVSNPSLDPDODATFGAFKVQDID 294
RESULT 5
US-09-577-800-11
; Sequence 11 Application US/09577800
; Patent No. 6479635
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
Galibert, Laurent
Masaskovsky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/577,800
FILING DATE: 24-MAY-2000
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/996,139
FILING DATE: 22 DECEMBER 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USN 60/064,671
FILING DATE: 14 OCTOBER 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USN 08/813,509
FILING DATE: 07 MARCH 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USN 08/772,330
FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693

REFERENCE/DOCKET NUMBER: 2851-A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)587-0430
 FAX: (206)233-0644
 INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:
 LENGTH: 294 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

Query Match 100.0%; Score 1561; DB 4; Length 294;
 Best Local Similarity 100.0%; Pred. No. 5e-153; Matches 224; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GVPHEGPIAPSAPAPPAASRSHFLALIGLGLGQVOSIALEFLFRQMDPNS 60
 Db 1 GVPHEGPIAPSAPAPPAASRSHFLALIGLGLGQVOSIALEFLFRQMDPNS 60

Qy 61 DSHCFYRLRHENADLQDSTSLESETLPSCRRAKQAFQAVOKELQHIVGQRFSGA 120

Db 61 DSHCFYRLRHENADLQDSTSLESETLPSCRRAKQAFQAVOKELQHIVGQRFSGA 120

Qy 121 PAMEGSWLDVORGKEAOPFAHTINASISIPSGSHKVTLSSWHDRGAKISNMTLN 180

Db 121 PAMEGSWLDVORGKEAOPFAHTINASISIPSGSHKVTLSSWHDRGAKISNMTLN 180

Qy 181 GLRVRNDGFYLYANICFRHETSGSVPTDYLQMVYVKTSTKIPSSHNLKGSKN 240

Db 181 GLRVRNDGFYLYANICFRHETSGSVPTDYLQMVYVKTSTKIPSSHNLKGSKN 240

Qy 241 WSGNSERPHYSINVGGFFKLRAGEEISIOTSNSPSSLDDPODATYFGAKVQDID 294

Db 241 WSGNSERPHYSINVGGFFKLRAGEEISIOTSNSPSSLDDPODATYFGAKVQDID 294

RESULT 6 US-09-466-496-11

; Sequence 11, Application US/09466496
 Patent No. 6528482

GENERAL INFORMATION:
 APPLICANT: Anderson, Dirk M.
 Galibert, Laurent
 Maraskovsky, Eugene
 TITLE OF INVENTION: Receptor Activator of NF-kappaB
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immunex Corporation, Law Department
 STREET: 51 University Street
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98101

COMPUTER READABLE FORM:
 COMPUTER TYPE: Floppy disk
 COMPUTER: Apple Power Macintosh
 OPERATING SYSTEM: Apple Operating System 7.5.5
 SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/996,139
 FILING DATE: 22 DECEMBER 1997
 APPLICATION NUMBER: US/09/466,496
 FILING DATE: 17-Dec-1999
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/996,139
 FILING DATE: 07 MARCH 1997
 APPLICATION NUMBER: US/08/813,509
 FILING DATE: 07 MARCH 1997
 APPLICATION NUMBER: US/08/813,509
 FILING DATE: 07 MARCH 1997
 ATTORNEY/AGENT INFORMATION:

NAME: Perkins, Patricia Anne
 REGISTRATION NUMBER: 34,693
 REFERENCE/DOCKET NUMBER: 2851-A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)587-0430
 FAX: (206)233-0644

INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:
 LENGTH: 294 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 11:

MOLECULE TYPE: Protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 11:

Query Match 100.0%; Score 1561; DB 4; Length 294;
 Best Local Similarity 100.0%; Pred. No. 5e-153; Matches 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 61 DSHCFYRLRHENADLQDSTSLESETLPSCRRAKQAFQAVOKELQHIVGQRFSGA 120

Db 61 DSHCFYRLRHENADLQDSTSLESETLPSCRRAKQAFQAVOKELQHIVGQRFSGA 120

Qy 121 PAMEGSWLDVORGKEAOPFAHTINASISIPSGSHKVTLSSWHDRGAKISNMTLN 180

Db 121 PAMEGSWLDVORGKEAOPFAHTINASISIPSGSHKVTLSSWHDRGAKISNMTLN 180

Qy 181 GLRVRNDGFYLYANICFRHETSGSVPTDYLQMVYVKTSTKIPSSHNLKGSKN 240

Db 181 GLRVRNDGFYLYANICFRHETSGSVPTDYLQMVYVKTSTKIPSSHNLKGSKN 240

Qy 241 WSGNSERPHYSINVGGFFKLRAGEEISIOTSNSPSSLDDPODATYFGAKVQDID 294

Db 241 WSGNSERPHYSINVGGFFKLRAGEEISIOTSNSPSSLDDPODATYFGAKVQDID 294

RESULT 7 US-09-871-856-11

; Sequence 11, Application US/09871856
 Patent No. 6537763

GENERAL INFORMATION:
 APPLICANT: Anderson, Dirk M.
 Galibert, Laurent
 Maraskovsky, Eugene
 TITLE OF INVENTION: Receptor Activator of NF-kappaB
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immunex Corporation, Law Department
 STREET: 51 University Street
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98101

COMPUTER READABLE FORM:
 COMPUTER TYPE: Floppy disk
 COMPUTER: Apple Power Macintosh
 OPERATING SYSTEM: Apple Operating System 7.5.5
 SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/871,856
 FILING DATE: 31-May-2001
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/996,139
 FILING DATE: <Unknown>

APPLICATION NUMBER: US/08/813,509
 FILING DATE: 23 DECEMBER 1996

ATTORNEY/AGENT INFORMATION:

ATTORNEY/AGENT INFORMATION:
 NAME: Perkins, Patricia Anne
 REFERENCE/DOCKET NUMBER: 34 693
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)587-0430
 INQUIRIES FOR SEQ ID NO: 11:
 TELEFAX: (206)233-0644
 SEQUENCE CHARACTERISTICS:
 LENGTH: 294 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 11:
 US-09-871-856-11

Query Match 100.0%; Score 1561; DB 4; Length 294;
 Best Local Similarity 100.0%; Pred. No. 5e-133;
 Matches 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GVPHEGPHPAPSAPAPPAASRSHNMLALIGLGLGQWVCSIALFLYRAQMOPNRSE 60
 DB 1 GVPHEGPHPAPSAPAPPAASRSHNMLALIGLGLGQWVCSIALFLYRAQMOPNRSE 60
 QY 61 DSTHCFYRILRHENADLQDSTSLEDTLPSDCRMKQAFQGAVYKELOHIVGQRFSGA 120
 DB 61 DSTHCFYRILRHENADLQDSTSLEDTLPSDCRMKQAFQGAVYKELOHIVGQRFSGA 120
 QY 121 PAMMEGSWLDYAQRGKPEAOPFAHTINASIPSSHKVTLSSWHDREWAKISMTLSN 180
 DB 121 PAMMEGSWLDYAQRGKPEAOPFAHTINASIPSSHKVTLSSWHDREWAKISMTLSN 180
 QY 121 PAMMEGSWLDYAQRGKPEAOPFAHTINASIPSSHKVTLSSWHDREWAKISMTLSN 180.
 DB 181 GKLRVNQDGFYLYANICFRHETSGSVPDIQLQMLVVYTKTSKIPSSHNLKGSKN 240
 QY 181 GKLRVNQDGFYLYANICFRHETSGSVPDIQLQMLVVYTKTSKIPSSHNLKGSKN 240
 DB 241 WSGNSEFHFSINVGGFKLURAGEEISIOWNSPNSLDPDDQDATYFGAKVQDID 294
 QY 241 WSGNSEFHFSINVGGFKLURAGEEISIOWNSPNSLDPDDQDATYFGAKVQDID 294
 DB 241 WSGNSEFHFSINVGGFKLURAGEEISIOWNSPNSLDPDDQDATYFGAKVQDID 294
 QY 241 WSGNSEFHFSINVGGFKLURAGEEISIOWNSPNSLDPDDQDATYFGAKVQDID 294

RESULT 8
 US-09-871-291-11
 Sequence 11, Application US/09871291
 Patent No. 6562348
 GENERAL INFORMATION:
 APPLICANT: Anderson, Dirk M.
 GAILBERT, Laurent
 MARASKOVSKY, Eugene
 TITLE OF INVENTION: Receptor Activator of NF-kappaB
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immune Corporation, Law Department
 STREET: 51 University Street
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 COMPUTER: Apple Power Macintosh
 OPERATING SYSTEM: Apple Operating System 7.5.5
 SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09-871-291
 FILING DATE: 30-May-2001
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/996,119
 FILING DATE: <Unknown>
 APPLICATION NUMBER: USN 08/813,509
 FILING DATE: 07-MARCH-1997
 APPLICATION NUMBER: USN 08/772,330

ATTORNEY/AGENT INFORMATION:
 NAME: Winter, Robert B.
 REFERENCE/DOCKET NUMBER: A-451
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)587-0430
 INQUIRIES FOR SEQ ID NO: 11:
 TELEFAX: (206)233-0644
 SEQUENCE CHARACTERISTICS:
 LENGTH: 294 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 11:
 US-09-871-291-11

Query Match 100.0%; Score 1561; DB 4; Length 294;
 Best Local Similarity 100.0%; Pred. No. 5e-133;
 Matches 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GVPHEGPHPAPSAPAPPAASRSHNMLALIGLGLGQWVCSIALFLYRAQMOPNRSE 60
 DB 1 GVPHEGPHPAPSAPAPPAASRSHNMLALIGLGLGQWVCSIALFLYRAQMOPNRSE 60
 QY 61 DSTHCFYRILRHENADLQDSTSLEDTLPSDCRMKQAFQGAVYKELOHIVGQRFSGA 120
 DB 61 DSTHCFYRILRHENADLQDSTSLEDTLPSDCRMKQAFQGAVYKELOHIVGQRFSGA 120
 QY 121 PAMMEGSWLDYAQRGKPEAOPFAHTINASIPSSHKVTLSSWHDREWAKISMTLSN 180
 DB 121 PAMMEGSWLDYAQRGKPEAOPFAHTINASIPSSHKVTLSSWHDREWAKISMTLSN 180
 QY 121 PAMMEGSWLDYAQRGKPEAOPFAHTINASIPSSHKVTLSSWHDREWAKISMTLSN 180.
 DB 181 GKLRVNQDGFYLYANICFRHETSGSVPDIQLQMLVVYTKTSKIPSSHNLKGSKN 240
 QY 181 GKLRVNQDGFYLYANICFRHETSGSVPDIQLQMLVVYTKTSKIPSSHNLKGSKN 240
 DB 241 WSGNSEFHFSINVGGFKLURAGEEISIOWNSPNSLDPDDQDATYFGAKVQDID 294
 QY 241 WSGNSEFHFSINVGGFKLURAGEEISIOWNSPNSLDPDDQDATYFGAKVQDID 294
 DB 241 WSGNSEFHFSINVGGFKLURAGEEISIOWNSPNSLDPDDQDATYFGAKVQDID 294

RESULT 9
 US-09-842-842-7
 Sequence 7, Application US/08842842
 Patent No. 584368
 GENERAL INFORMATION:
 APPLICANT: Boyle, William J.
 TITLE OF INVENTION: OSTEOPROTEGERIN BINDING PROTEINS
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Amgen Inc.
 STREET: 1840 Behavilland Drive
 CITY: Thousand Oaks
 STATE: California
 COUNTRY: USA
 ZIP: 91320-1789
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/842,842
 FILING DATE:
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
 NAME: Winter, Robert B.
 REFERENCE/DOCKET NUMBER: A-451
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 316 amino acids

TOPOLOGY: linear
 MOLECULE TYPE: protein
 us-08-842-842-7

Query Match 99.6%; Score 1554; DB 2; Length 316;
 Best Local Similarity 99.7%; Pred. No. 3e-152; Length 316;
 Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GVPHEGSPHLHAPSAPAPPAAASRSMETALLGLGIGQVCSIAFLYFRQMDPRLSE 60
 Db 23 GVPHEGSPHLHAPSAPAPPAAASRSMETALLGLGIGQVCSIAFLYFRQMDPRLSE 60
 Qy 61 DSTHCFYRLRHENADQDSTLSEDTPDSCRMKQAFQAVOKELQHVGPOFSGA 120
 Db 83 DSTHCFYRLRHENAGLDSTLSEDTPDSCRMKQAFQAVOKELQHVGPOFSGA 120
 Qy 121 PAMMEGSWILDVAORGKPEAQPAQPAFAQPAASRSMLLALLGIGLQGVCSIAFLYFRQMDPRLSE 60
 Db 143 PAMMEGSWILDVAORGKPEAQPAQPAFAQPAASRSMLLALLGIGLQGVCSIAFLYFRQMDPRLSE 60
 Qy 181 GKLRVNDQFYLYANICFRHETSGSVPDTQLQMLYVWTSIKIPSSHNLMKGSTKN 240
 Db 203 GKLRVNDQFYLYANICFRHETSGSVPDTQLQMLYVWTSIKIPSSHNLMKGSTKN 262
 Qy 241 WSGNSEFHYSINVGGFFKLRAGEETISIQVSNSPLDPDDATYFGAKVQDID 294
 Db 263 WSGNSEFHYSINVGGFFKLRAGEETISIQVSNSPLDPDDATYFGAKVQDID 316

RESULT 10

US-08-989-362-2

Sequence 2, Application US/08989362

Patent No. 522586

GENERAL INFORMATION:

APPLICANT: Mattson, Jeanine D.

TITLE OF INVENTION: Mammalian Cell Surface Antigens; Related

NUMBER OF SEQUENCES: 2

CORRESPONDENCE ADDRESS:

ADDRESSEE: DNA Research Institute

STREET: 901 California Avenue

CITY: Palo Alto

STATE: California

COUNTRY: USA

ZIP: 94304-1104

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/989,362

FILING DATE: 12-DEC-1997

CLASSIFICATION: 56

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/032,846

FILING DATE: 13-DEC-1996

ATTORNEY/AGENT INFORMATION:

NAME: Ching, Edwin P.

REGISTRATION NUMBER: 34,090

REFERENCE/DOCKET NUMBER: DX0686

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 852-9195

TELEX: (650) 495-1204

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 315 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

us-08-989-362-2

RESULT 11

US-09-052-521C-2

Sequence 2, Application US/09052521C

Patent No. 631408

GENERAL INFORMATION:

APPLICANT: Boyle, William J.

TITLE OF INVENTION: Osteoprotegerin Binding Proteins and Receptors

FILE REFERENCE: A-4518IV

CURRENT APPLICATION NUMBER: US/09/052,521C

CURRENT FILING DATE: 1998-03-30

PRIOR APPLICATION NUMBER: 08/680,855

PRIOR FILING DATE: 1997-06-23

PRIOR APPLICATION NUMBER: 08/842,842

PRIOR FILING DATE: 1997-04-16

NUMBER OF SEQ ID NOS: 40

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 2

LENGTH: 316

TYPE: PRT

ORGANISM: Mouse

US-09-052-521C-2

Query Match 99.6%; Score 1554; DB 4; Length 316;
 Best Local Similarity 99.7%; Pred. No. 3e-152; Length 316;
 Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GVPHEGSPHLHAPSAPAPPAAASRSMETALLGLGIGQVCSIAFLYFRQMDPRLSE 60
 Db 23 GVPHEGSPHLHAPSAPAPPAAASRSMETALLGLGIGQVCSIAFLYFRQMDPRLSE 60
 Qy 61 DSTHCFYRLRHENADQDSTLSEDTPDSCRMKQAFQAVOKELQHVGPOFSGA 120
 Db 83 DSTHCFYRLRHENAGLDSTLSEDTPDSCRMKQAFQAVOKELQHVGPOFSGA 120
 Qy 121 PAMMEGSWILDVAORGKPEAQPAQPAFAQPAASRSMLLALLGIGLQGVCSIAFLYFRQMDPRLSE 60
 Db 143 PAMMEGSWILDVAORGKPEAQPAQPAFAQPAASRSMLLALLGIGLQGVCSIAFLYFRQMDPRLSE 60
 Qy 181 GKLRVNDQFYLYANICFRHETSGSVPDTQLQMLYVWTSIKIPSSHNLMKGSTKN 240
 Db 203 GKLRVNDQFYLYANICFRHETSGSVPDTQLQMLYVWTSIKIPSSHNLMKGSTKN 262
 Qy 241 WSGNSEFHYSINVGGFFKLRAGEETISIQVSNSPLDPDDATYFGAKVQDID 294
 Db 263 WSGNSEFHYSINVGGFFKLRAGEETISIQVSNSPLDPDDATYFGAKVQDID 316

RESULT 12

US-09-671-658A-2

; Sequence 2, Application US/09671658A

; Patent No. 6525180

; GENERAL INFORMATION:

; APPLICANT: Gorman, Daniel M.

; MATTSON, Jeanine D.

; TITLE OF INVENTION: Mammalian Cell Surface Antigens; Related

; NUMBER OF SEQUENCES: 2

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: DNAX Research Institute

; STREET: 901 California Avenue

; CITY: Palo Alto

; STATE: California

; COUNTRY: USA

; ZIP: 94304-1104

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/671,658A

; FILING DATE: 27-Sep-2000

; CLASSIFICATION: <Unknown>

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: US/08/989,362

; FILING DATE: 12-DEC-1997

; APPLICATION NUMBER: US 50/032,846

; FILING DATE: 13-DEC-1996

; ATTORNEY/AGENT INFORMATION:

; NAME: Ching, Edwin P.

; REGISTRATION NUMBER: 34,090

; REFERENCE/DOCKET NUMBER: DX0686

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (650)852-9196

; TELEFAX: (650)496-1204

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 316 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; SEQUENCE DESCRIPTION: SEQ ID NO: 2:

; US-09-671-658A-2

; Query Match 99.6%; Score 1554; DB 4; Length 316;

; Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

; QY 1 GYPHEGPRLHAPSAPAPPAAASRMLFLALIGLIGQVVCIALFLYFRQMDPNRISE 50

; DB 23 GVPHEGPLHAPSAPAPPAAASRMLFLALIGLIGQVVCIALFLYFRQMDPNRISE 50

; QY 61 DSTHCFYRILRHENDLQSTDLESIDLPDSCRMQKAFQAVKELQHTVGPQRS 120

; DB 83 DSTHCFYRILRHENDLQSTDLESIDLPDSCRMQKAFQAVKELQHTVGPQRS 120

; QY 121 PAMMGSWLOVAQRSKPERRQPAHHTINASIPSGSHKTLSYHDKWAKISNMTR 180

; DB 143 PAMMGSWLOVAQRSKPERRQPAHHTINASIPSGSHKTLSYHDKWAKISNMTR 180

; QY 181 GKLRYNQDGTYLYKANICFRHETSGSVTDLQMLVYVWTKSIRPSHNLMKGSTN 202

; DB 203 GKLRYNQDGTYLYKANICFRHETSGSVTDLQMLVYVWTKSIRPSHNLMKGSTN 240

; QY 241 WSGNSEPHFYSINVGGFFKLRAGEPEISIQVSNSLDDPDQDATYGAFKVQDID 294

; DB 263 WSGNSEPHFYSINVGGFFKLRAGEPEISIQVSNSLDDPDQDATYGAFKVQDID 316

; RESULT 13

; US-08-996-139-13

; Sequence 13, Application US/08996139

; Patent No. 6017729

; GENERAL INFORMATION:

; APPLICANT: Anderson, Dirk M.

; APPLICANT: Galibert, Laurent

; TITLE OF INVENTION: Marasovskiy, Eugene

; NUMBER OF SEQUENCES: 19

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Immunex Corporation, Law Department

; STREET: 51 University Street

; CITY: Seattle

; STATE: WA

; COUNTRY: USA

; ZIP: 98101

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: Apple Power Macintosh

; OPERATING SYSTEM: Apple Operating System 7.5.5

; SOFTWARE: Microsoft Word for Power Macintosh 6.0.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/996,139

; FILING DATE: 22 DECEMBER 1997

; CLASSIFICATION:

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: USSN 60/064,671

; FILING DATE: 14 OCTOBER 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: USSN 08/813,509

; FILING DATE: 07 MARCH 1997

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: USSN 08/772,330

; FILING DATE: 23 DECEMBER 1996

; ATTORNEY/AGENT INFORMATION:

; NAME: Perkins, Patricia Anne

; REGISTRATION NUMBER: 34,693

; REFERENCE/DOCKET NUMBER: 2851-A

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (206)233-0644

; TELEFAX: (206)233-0640

; INFORMATION FOR SEQ ID NO: 13:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 317 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; US-08-996-139-13

; Query Match 85.0%; Score 1326.5; DB 3; Length 317;

; Matches 250; Conservative 16; Mismatches 27; Indels 3; Gaps 2;

; QY 1 GYPHEGPRLHAPSAPAPPAAASRMLFLALIGLIGQVVCIALFLYFRQMDPNRISE 60

; DB 23 GVPHEGPLHAPSAPAPPAAASRMLFLALIGLIGQVVCIALFLYFRQMDPNRISE 60

; QY 61 DSTHCFYRILRHENDLQSTDLESIDLPDSCRMQKAFQAVKELQHTVGPQRS 178

; DB 142 AEKAMYDGWSWLAKSKLEOPFAHHTINATDPSGSHKVLSWWYHDKWAKISNMTR 201

; QY 179 SNGKLVNQDGTYLYKANICFRHETSGSVTDLQMLVYVWTKSIRPSHNLMKGSTN 238

; DB 202 SNGKLVNQDGTYLYKANICFRHETSGSVTDLQMLVYVWTKSIRPSHNLMKGSTN 261

; QY 239 KNWSNSEPHFYSINVGGFFKLRAGEPEISIQVSNSLDDPDQDATYGAFKVQDID 294

; DB 262 KYWSNSEPHFYSINVGGFFKLRAGEPEISIQVSNSLDDPDQDATYGAFKVQDID 317

RESULT 14

US-08-995-659-13

Sequence 13, Application US/08995659
Patent No. 6242213
GENERAL INFORMATION:

APPLICANT: Anderson, Dirk M.

APPLICANT: Maraskovsky, Eugene

TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunex Corporation, Law Department

STREET: 51 University Street

CITY: Seattle

STATE: WA

COUNTRY: USA

ZIP: 98101

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: Apple Power Macintosh

OPERATING SYSTEM: Apple Operating System 7.5.5

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/995,659

FILING DATE: 22 DECEMBER 1997

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: USN 60/064,671

FILING DATE: 14 OCTOBER 1997

CLASSIFICATION:

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: USN 08/813,509

FILING DATE: 07 MARCH 1997

NAME: Perkins, Patricia Anne

REGISTRATION NUMBER: 34,693

REFERENCE/DOCKET NUMBER: 2852-A

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206)587-0430

TELEFAX: (206)233-0644

ATTORNEY/AGENT INFORMATION:

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 317 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-995-659-13

Query Match

Best Local Similarity 85.0%; Score 1326.5; DB 3; Length 317;

Matches 250; Conservative 16; Mismatches 27; Indels 3; Gaps 2;

QY 1 GVPHEGPHPAPAPAPPAPPAASRSMLALIGLGLQWVCSIALEYFRQMDPRLSE 60

D5 23 GAPHGEGPLH-APPPAPHPQAPPAASRSMSVALGLGLQWVCSVALFYFRQMDPRLSE 81

QY 61 DSHCFYRILRLHENADQDSTLESEDT--LPDSCKRKQAFQAVQKEQHIVPQRFS 118

D5 82 DGTCIYRILRLHENADQDSTLESQDKLIPDSCKRKQAFQAVQKEQHIVPQRFS 118

QY 119 GAPAMMEGSWLDVAQRGKPEAOPFAHLTINAASIPSGSHKTYLSSWYHDGWAKISNMT 178

D5 142 AERAMVGDWLDAKRSKLEAOFPFAHLTINAASIPSGSHKYSVLSWYHDGWAKISNMT 201

QY 179 SNGKLIVNQDGFLYLYANICFRHETSGSVDLATEYQLQMLVVVTKTSKIPSSHTLMGGST 238

D5 202 SNGKLIVNQDGFLYLYANICFRHETSGSVDLATEYQLQMLVVVTKTSKIPSSHTLMGGST 261

OY

239 KRNNSNREPFYISINVGGPKLRAGEESTSVNPSLDDODATFGAFKVQDID 294

Db 262 KYWGNSEFHFSINVGGPKLRGEESTSVNPSLDDODATFGAFKVQDID 317

RESULT 15

US-09-215-6429-13

Sequence 13, Application US/0921569A

Patent No. 6271349

GENERAL INFORMATION:

APPLICANT: Anderson, Dirk M.

APPLICANT: Maraskovsky, Eugene

TITLE OF INVENTION: Receptor Activator of NF-kappaB

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunex Corporation, Law Department

STREET: 51 University Street

CITY: Seattle

STATE: WA

COUNTRY: USA

ZIP: 98101

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: Apple Power Macintosh

OPERATING SYSTEM: Apple Operating System 7.5.5

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/215,649A

FILING DATE: 17-Dec-1998

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: 08/996,139

FILING DATE: <Unknown>

APPLICATION NUMBER: USN 08/813,509

FILING DATE: 07 MARCH 1997

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: USN 08/772,330

FILING DATE: 23 DECEMBER 1996

ATTORNEY/AGENT INFORMATION:

NAME: Perkins, Patricia Anne

REGISTRATION NUMBER: 34,693

REFERENCE/DOCKET NUMBER: 2851-A

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206)587-0430

TELEFAX: (206)233-0644

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 317 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 13:

US-09-215-6429-13

Query Match

Best Local Similarity 85.0%; Score 1326.5; DB 3; Length 317;

Matches 250; Conservative 16; Mismatches 27; Indels 3; Gaps 2;

QY 1 GVPHEGPHPAPAPAPPAPPAASRSMLALIGLGLQWVCSIALEYFRQMDPRLSE 60

D5 23 GAPHGEGPLH-APPPAPHPQAPPAASRSMSVALGLGLQWVCSVALFYFRQMDPRLSE 81

QY 61 DSHCFYRILRLHENADQDSTLESEDT--LPDSCKRKQAFQAVQKEQHIVPQRFS 118

D5 82 DGTCIYRILRLHENADQDSTLESQDKLIPDSCKRKQAFQAVQKEQHIVPQRFS 118

QY 119 GAPAMMEGSWLDVAQRGKPEAOPFAHLTINAASIPSGSHKTYLSSWYHDGWAKISNMT 178

D5 142 AERAMVGDWLDAKRSKLEAOFPFAHLTINAASIPSGSHKYSVLSWYHDGWAKISNMT 201

QY 179 SNGKLIVNQDGFLYLYANICFRHETSGSVDLATEYQLQMLVVVTKTSKIPSSHTLMGGST 238

D5 202 SNGKLIVNQDGFLYLYANICFRHETSGSVDLATEYQLQMLVVVTKTSKIPSSHTLMGGST 261

Thu Sep 11 16:16:48 2003

us-09-688-459-11.rai

Page 9

Qy 239 KWMGNSEFHYSINVGFFKLRAEGELTSIOVSNPSLDPDODATYFGAFKWDID 294
DB | ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
262 KWMGNSEFHYSINVGFFKLRSGEESIEVSNPSLDPDODATYFGAFKVRID 317

Search completed: September 11, 2003, 08:53:02
Job time : 23 secs

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GenCore version 5.1.6

O'm protein - protein search, using sw model

Run on: September 11, 2003, 08:30:21 ; Search time 195 Seconds (without alignments)

Scoring table: BLOSUM62

Gapext 10.0 , Gapext 0.5

Searched: 541936 seqs, 145912425 residues

Total number of hits satisfying chosen parameters: 541936

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100%

Listing first 45 summaries:

Database : Published_Applications_AA:*

1: /cgn2_6/pctodata/1/pubpaa/us07_pubcomb.pep:*

2: /cgn2_6/pctodata/1/pubpaa/us08_pubcomb.pep:*

3: /cgn2_6/pctodata/1/pubpaa/us06_pubcomb.pep:*

4: /cgn2_6/pctodata/1/pubpaa/us05_pubcomb.pep:*

5: /cgn2_6/pctodata/1/pubpaa/us07_new_pub.pep:*

6: /cgn2_6/pctodata/1/pubpaa/pctus_pubcomb.pep:*

7: /cgn2_6/pctodata/1/pubpaa/us08_new_pub.pep:*

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12: /cgn2_6/pctodata/1/pubpaa/us10_pubcomb.pep:*

13: /cgn2_6/pctodata/1/pubpaa/us10c_pubcomb.pep:*

14: /cgn2_6/pctodata/1/pubpaa/us10c_pubcomb.pep:*

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16: /cgn2_6/pctodata/1/pubpaa/us60_pubcomb.pep:*

17: /cgn2_6/pctodata/1/pubpaa/us60_new_pub.pep:*

18: /cgn2_6/pctodata/1/pubpaa/us60_pubcomb.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

RESULT 1

US-09-871-856-11

; Sequence 11, Application US/09871856

; Patent No. US20030081720A1

; GENERAL INFORMATION:

APPLICANT: Anderson, Dirk M.

Makarovsky, Eugene

TITLE OF INVENTION: Receptor Activator of NF-kappaB

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunex Corporation, Law Department

STREET: 51 University Street

CITY: Seattle

STATE: WA

COUNTRY: USA

ZIP: 98101

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: Apple Power Macintosh

OPERATING SYSTEM: Apple Operating System 7.5.5

SOFTWARE: Microsoft Word for Power Macintosh 6.0.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/871,856

FILING DATE: 31 May 2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/996,139

FILING DATE: <Unknown>

APPLICATION NUMBER: USN 08/813,509

FILING DATE: 07 MARCH 1997

APPLICATION NUMBER: USN 08/772,330

FILING DATE: 23 DECEMBER 1996

ATTORNEY/AGENT INFORMATION:

NAME: Perkins, Patricia Anne

REGISTRATION NUMBER: 34,993

TELECOMMUNICATION INFORMATION:

SEQUENCE 15, Appl

SEQUENCE 10, Appl

SEQUENCE 8, Appl

SEQUENCE 8, Appl

SEQUENCE 10, Appl

SEQUENCE 11, Appl

SEQUENCE 3, Appl

SEQUENCE 6, Appl

SEQUENCE 8, Appl

SEQUENCE 17, Appl

SEQUENCE 8, Appl

SEQUENCE 1, Appl

SEQUENCE 118, Appl

SEQUENCE 66, Appl

SEQUENCE 4, Appl

SEQUENCE 54, Appl

SEQUENCE 11, Appl

SEQUENCE 41, Appl

SEQUENCE 20, Appl

SEQUENCE 6, Appl

SEQUENCE 5, Appl

SEQUENCE 13, Appl

SEQUENCE 10, Appl

SEQUENCE 16, Appl

SEQUENCE 7, Appl

SEQUENCE 17, Appl

SEQUENCE 29, Appl

SEQUENCE 78, Appl

US-09-079-569-7

Query Match Best Local Similarity 99.6%; Score 1554; DB 11; Length 316;

Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 1 GYPHEGGLHPPAPSPAPPAPPAASRSRMFLALIGLIGQGVCSIALFLYRAQMDPNTSE 60

Db 23 GYPHEGGLHPPAPSPAPPAPPAASRSRMFLALIGLIGQGVCSIALFLYRAQMDPNTSE 60

Oy 61 DSTHCYTRILRHENDLQDSTLESDTLDSCRMKQAFQAVQKEQHIVGPRFGA 120

Db 83 DSTHCYTRILRHENDLQDSTLESDTLDSCRMKQAFQAVQKEQHIVGPRFGA 120

Oy 121 PAMMEGSWLDVAQQRKEAQPFHALTINASIPSGSHKVTLSSWHDRGAKTSNMTLSN 180

Db 143 PAMMEGSWLDVAQQRKEAQPFHALTINASIPSGSHKVTLSSWHDRGAKTSNMTLSN 180

Oy 181 GKLRYNQDGYYLANTICRHETSGSPTDYLQMLVVKTSKIKSSHNLMKGSTKN 240

Db 203 GKLRYNQDGYYLANTICRHETSGSPTDYLQMLVVKTSKIKSSHNLMKGSTKN 240

Oy 241 WSGNSEFHYSINGGFFKLRAEELISQVSNSPLPDQDATYFGAFKVQDID 294

Db 263 WSGNSEFHYSINGGFFKLRAEELISQVSNSPLPDQDATYFGAFKVQDID 294

RESULT 4
US-10-326-052-2Sequence 2, Application US/09326052
Publication No. US20030144680A1

GENERAL INFORMATION:

APPLICANT: Gorman, Daniel M.

TITLE OF INVENTION: Mammalian Cell Surface Antigens; Related

NUMBER OF SEQUENCES: 2 Reagents

CORRESPONDENCE ADDRESS:

ADDRESSEE: DNA Research Institute

STREET: 901 California Avenue

CITY: Palo Alto

STATE: California

COUNTRY: USA

ZIP: 94301-1104

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible

SOFTWARE: Patentin Release #1.0, version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US10/326,052

FILING DATE: 23-Dec-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/671,658A

FILING DATE: 27-Sep-2000

APPLICATION NUMBER: US/08/989,362

FILING DATE: 12-Dec-1997

APPLICATION NUMBER: US 60/032,846

FILING DATE: 13-DEC-1996

ATTORNEY/AGENT INFORMATION:

NAME: Ching, Edin P.

REGISTRATION NUMBER: 34,090

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650)852-9196

TELEFAX: (650)496-1204

SEQUENCE CHARACTERISTICS:

LENGTH: 316 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-10-326-052-2

SEQUENCE DESCRIPTION: SEQ ID NO: 2:

Query Match Best Local Similarity 99.6%; Score 1554; DB 12; Length 316;

Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 1 GYPHEGGLHPPAPSPAPPAPPAASRSRMFLALIGLIGQGVCSIALFLYRAQMDPNTSE 60

Db 23 GYPHEGGLHPPAPSPAPPAPPAASRSRMFLALIGLIGQGVCSIALFLYRAQMDPNTSE 60

Oy 61 DSTHCYTRILRHENDLQDSTLESDTLDSCRMKQAFQAVQKEQHIVGPRFGA 120

Db 83 DSTHCYTRILRHENDLQDSTLESDTLDSCRMKQAFQAVQKEQHIVGPRFGA 120

Oy 121 PAMMEGSWLDVAQQRKEAQPFHALTINASIPSGSHKVTLSSWHDRGAKTSNMTLSN 180

Db 143 PAMMEGSWLDVAQQRKEAQPFHALTINASIPSGSHKVTLSSWHDRGAKTSNMTLSN 180

Oy 181 GKLRYNQDGYYLANTICRHETSGSPTDYLQMLVVKTSKIKSSHNLMKGSTKN 240

Db 203 GKLRYNQDGYYLANTICRHETSGSPTDYLQMLVVKTSKIKSSHNLMKGSTKN 240

Oy 241 WSGNSEFHYSINGGFFKLRAEELISQVSNSPLPDQDATYFGAFKVQDID 294

Db 263 WSGNSEFHYSINGGFFKLRAEELISQVSNSPLPDQDATYFGAFKVQDID 294

RESULT 5
US-10-017-910-4

Sequence 4, Application US/01017910

Publication No. US20020159970A1

GENERAL INFORMATION:

APPLICANT: Choi, Yongwon

TITLE OF INVENTION: A PROTEIN BELONGING TO THE TNF SUPERFAMILY INVOLVED IN SIGNAL TRANSDUCTION, NUCLEIC ACIDS ENCODING METHODS OF USE THEREOF

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Klauber & Jackson

STREET: 411 Hackensack Avenue, 4th Floor

CITY: Hackensack

STATE: New Jersey

COUNTRY: USA

ZIP: 07601

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/017,910

FILING DATE: 14-Dec-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 09/447,035

ATTORNEY/AGENT INFORMATION:

NAME: Jackson Esq., David A.

REGISTRATION NUMBER: 26,742

TELECOMMUNICATION INFORMATION:

TELEPHONE: 201-487-5800

TELEFAX: 201-343-1684

SEQUENCE CHARACTERISTICS:

LENGTH: 316 amino acids

TYPE: amino acid

TOPOLOGY: linear

;

MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-017-910-4

Query Match 99.6%; Score 1554; DB 14; Length 316;
Best Local Similarity 99.7%; Pred. No. 5.2e-145;
Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GPHEGGLPHAPSPAPAPPAPPAASRSMFLALIGLGLGQVCSIAFLYFRAOMDPNRISE 60
23 GVPHEGGLPHAPSPAPAPPAPPAASRSMFLALIGLGLGQVCSIAFLYFRAOMDPNRISE 82

DY 61 DSTHCFYRLRHENADLQDSTLESDTLDSCRKMQFOGAVOKELQHTVGQRFSGA 120
83 DSTHCFYRLRHENAGLQDSTLESDTLDSCRKMQFOGAVOKELQHTVGQRFSGA 142

QY 121 PAMMEGSHLVAQORKPEAQPFHAFITINASISPGSHKVTLSWYHDRGWAISNTLSN 180
143 PAMMEGSHLVAQORKPEAQPFHAFITINASISPGSHKVTLSWYHDRGWAISNTLSN 202

OY 181 GKLRYNODGFYLYANICFRHETSGSVPDYLQLMVYVTKSIKIPSSHNLKGSTK 240
203 GKLRYNODGFYLYANICFRHETSGSVPDYLQLMVYVTKSIKIPSSHNLKGSTK 262

QY 241 WSGNSERFHFSINVGGFFKLRAGEEISIOVSNSPLDQDATYFGAKVQDID 294

Db 263 WSGNSERFHFSINVGGFFKLRAGEEISIOVSNSPLDQDATYFGAKVQDID 316

RESULT 5
US-10-105-057-2

Sequence 2, Application US/10105057
Publication No. US20030013651A1

GENERAL INFORMATION:

APPLICANT: Barnes-Jewish Hospital, d/b/a The Jewish Hospital of St. Louis
TITLE OF INVENTION: STIMULATION OF OSTEOGENESIS USING RANK LIGAND FUSION PROTEINS
FILE REFERENCE: BJCH 10034.1

CURRENT APPLICATION NUMBER: US/10/105,057

CURRENT FILING DATE: 2002-03-22

PRIOR APPLICATION NUMBER: US 60/277,855

PRIOR FILING DATE: 2001-03-22

NUMBER OF SEQ ID NOS: 6

SOFTWARE: Patentin version 3.1

SEQ ID NO 2

LENGTH: 316

TYPE: PRT

; ORGANISM: Mus musculus
US-10-105-057-2

Query Match 99.6%; Score 1554; DB 15; Length 316;
Best Local Similarity 99.7%; Pred. No. 5.2e-145;
Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GPHEGGLPHAPSPAPAPPAPPAASRSMFLALIGLGLGQVCSIAFLYFRAOMDPNRISE 60
Db 23 GVPHEGGLPHAPSPAPAPPAPPAASRSMFLALIGLGLGQVCSIAFLYFRAOMDPNRISE 82

QY 61 DSTHCFYRLRHENADLQDSTLESDTLDSCRKMQFOGAVOKELQHTVGQRFSGA 120
Db 83 DSTHCFYRLRHENAGLQDSTLESDTLDSCRKMQFOGAVOKELQHTVGQRFSGA 142

QY 121 PAMMEGSHLVAQORKPEAQPFHAFITINASISPGSHKVTLSWYHDRGWAISNTLSN 180
Db 143 PAMMEGSHLVAQORKPEAQPFHAFITINASISPGSHKVTLSWYHDRGWAISNTLSN 202

QY 181 GKLRYNODGFYLYANICFRHETSGSVPDYLQLMVYVTKSIKIPSSHNLKGSTK 240
Db 203 GKLRYNODGFYLYANICFRHETSGSVPDYLQLMVYVTKSIKIPSSHNLKGSTK 262

QY 241 WSGNSERFHFSINVGGFFKLRAGEEISIOVSNSPLDQDATYFGAKVQDID 294

Db 263 WSGNSERFHFSINVGGFFKLRAGEEISIOVSNSPLDQDATYFGAKVQDID 316

RESULT 6
US-10-272-411-19

Sequence 19, Application US/10272411
Publication No. US2003010068A1

GENERAL INFORMATION:

APPLICANT: Barnes Jewish Hospital
APPLICANT: Lam, Jonathan
APPLICANT: Ross, F. Patrick
APPLICANT: Teitelbaum, Steven
TITLE OF INVENTION: RANKL MIMICS AND USES THEREOF
FILE REFERENCE: 600119620-0202

CURRENT APPLICATION NUMBER: US/10/272,411

CURRENT FILING DATE: 2002-10-15

PRIOR APPLICATION NUMBER: 60/329,393

PRIOR FILING DATE: 2001-10-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: Patentin version 3.1

SEQ ID NO 19

LENGTH: 316

TYPE: PRT

; ORGANISM: Homo sapiens
US-10-272-411-19

Query Match 99.6%; Score 1554; DB 15; Length 316;
Best Local Similarity 99.7%; Pred. No. 5.2e-145;
Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GPHEGGLPHAPSPAPAPPAPPAASRSMFLALIGLGLGQVCSIAFLYFRAOMDPNRISE 60
Db 23 GVPHEGGLPHAPSPAPAPPAPPAASRSMFLALIGLGLGQVCSIAFLYFRAOMDPNRISE 82

QY 61 DSTHCFYRLRHENADLQDSTLESDTLDSCRKMQFOGAVOKELQHTVGQRFSGA 120
Db 83 DSTHCFYRLRHENAGLQDSTLESDTLDSCRKMQFOGAVOKELQHTVGQRFSGA 142

QY 121 PAMMEGSHLVAQORKPEAQPFHAFITINASISPGSHKVTLSWYHDRGWAISNTLSN 180
Db 143 PAMMEGSHLVAQORKPEAQPFHAFITINASISPGSHKVTLSWYHDRGWAISNTLSN 202

QY 181 GKLRYNODGFYLYANICFRHETSGSVPDYLQLMVYVTKSIKIPSSHNLKGSTK 240
Db 203 GKLRYNODGFYLYANICFRHETSGSVPDYLQLMVYVTKSIKIPSSHNLKGSTK 262

QY 241 WSGNSERFHFSINVGGFFKLRAGEEISIOVSNSPLDQDATYFGAKVQDID 294

Db 263 WSGNSERFHFSINVGGFFKLRAGEEISIOVSNSPLDQDATYFGAKVQDID 316

RESULT 8
US-10-272-328A-19

Sequence 19, Application US/10272328A
Publication No. US2003010944A1

GENERAL INFORMATION:

APPLICANT: Barnes Jewish Hospital
APPLICANT: Lam, Jonathan
APPLICANT: Ross, F. Patrick
APPLICANT: Teitelbaum, Steven
TITLE OF INVENTION: RANKL MIMICS AND USES THEREOF
FILE REFERENCE: 600119620-0206

CURRENT APPLICATION NUMBER: US/10/272,328A

CURRENT FILING DATE: 2003-01-24

PRIOR APPLICATION NUMBER: 60/329,393

PRIOR FILING DATE: 2001-10-15

NUMBER OF SEQ ID NOS: 51

SOFTWARE: Patentin version 3.1

SEQ ID NO 19

LENGTH: 316

TYPE: PRT

; ORGANISM: Homo sapiens
US-10-272-328A-19

Query Match 99.6%; Score 1554; DB 15; Length 316;

Best Local Similarity 99.7%; Pred. No. 5.2e-145; Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GVPHEGPHPARSAPAPPAASRSMFLAFLGLIGLQCVCSIAFLYRAQMDPNE 60
D9 23 GVPHEGPHPARSAPAPPAASRSMFLAFLGLIGLQCVCSIAFLYRAQMDPNE 82

OY 61 DSTHCFYRLRHENADQDSTLESDT--LPDSCRMKAQFOGAVKELOHIVGPOFRS 120
D9 83 DSTHCFYRLRHENADQDSTLESDTLPDSCRMKAQFOGAVKELOHIVGPOFRS 142

QY 121 PAMMGSSWLDVAQRKPEAOPFAHTINASIPSGSHKVLSWHDGRWAKISMTLN 180
D9 143 PAMMGSSWLDVAQRKPEAOPFAHTINASIPSGSHKVLSWHDGRWAKISMTLN 202

OY 181 GKLRYNQDGFFYLYANICCRHETSGSVPTDYLQMLMVVTKTSKIPSSHNLKGSTLN 240
D9 203 GKLRYNQDGFFYLYANICCRHETSGSVPTDYLQMLMVVTKTSKIPSSHNLKGSTLN 262

OY 241 WSGNSEFHEFSINVGGFKRAGEEFTISIQVNSNPSLLDDODATYGAFKVQDID 294
D9 263 WSGNSEFHEFSINVGGFKRAGEEFTISIQVNSNPSLLDDODATYGAFKVQDID 316

RESULT 9
US-09-813-329-7
; Sequence 7, Application US/09813329
; Patent No. US200200112968A1

; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: No. US20020012968A1 elet Drosophila Tumor Necrosis Factor Class Mole
; TITLE OF INVENTION: Variants Thereof
; FILE REFERENCE: D016.NP
; CURRENT APPLICATION NUMBER: US/09/813, 329
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/190, 816
; PRIOR FILING DATE: 2000-03-21
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 7
; LENGTH: 317
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; US-09-813-329-7

Query Match 85.0%; Score 1326.5; DB 9; Length 317;
Best Local Similarity 84.5%; Pred. No. 1.5e-122;
Matches 250; Conservative 16; Mismatches 27; Indels 3; Gaps 2;

QY 1 GVPHEGPHPARSAPAPPAASRSMFLAFLGLIGLQCVCSIAFLYRAQMDPNE 60
D9 23 GVPHEGPH-APPPAPPHQPPAPRASRSMFLAFLGLIGLQCVCSIAFLYRAQMDPNE 81

OY 61 DSTHCFYRLRHENADQDSTLESDT--LPDSCRMKAQFOGAVKELOHIVGPOFRS 118
D9 82 DGTHCFYRLRHENADQDSTLESDTLPDSCRMKAQFOGAVKELOHIVGSOHIR 141

OY 119 GAPAMMGSWLDVAQRKPEAOPFAHTINASIPSGSHKVLSWHDGRAKISMTLN 178
D9 142 AEKAMVGDSSWLDLAKRSLRLEOPFAHTINADTIPSGSHKVLSWHDGRWAKISMTLN 201

OY 179 SNGKLRVNYQDGFFYLYANICCRHETSGSVPTDYLQMLMVVTKTSKIPSSHNLKGSTLN 238
D9 202 SNGKLRVNYQDGFFYLYANICCRHETSGSVPTDYLQMLMVVTKTSKIPSSHNLKGSTLN 261

OY 215 KWWSGNSEFHFVISINVGGFKRAGEEFTISIQVNSNPSLLDDODATYGAFKVQDID 294
D9 262 KWWSGNSEFHEFSINVGGFKRAGEEFTISIQVNSNPSLLDDODATYGAFKVQDID 317

RESULT 10
; Sequence 13, Application US/09871856

RESULT 11
US-09-871-856-13

Patent No. US20020081720A1
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
Galibert, Laurent
Maslakovsky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101

COMPUTER READABLE FORM:
MEDIAN TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/871, 856
FILING DATE: 31-MAY-2001
CLASSIFICATION: <Unknown>
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/996, 139
FILING DATE: <Unknown>
APPLICATION NUMBER: USN 08/813, 509
FILING DATE: 07 MARCH 1997
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34, 693
REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 587-0430
TELEFAX: (206) 233-0644
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 317 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 13:

US-09-871-856-13
Query Match 85.0%; Score 1326.5; DB 9; Length 317;
Best Local Similarity 84.5%; Pred. No. 1.5e-122;
Matches 250; Conservative 16; Mismatches 27; Indels 3; Gaps 2;

QY 1 GVPHEGPHPARSAPAPPAASRSMFLAFLGLIGLQCVCSIAFLYRAQMDPNE 60
D9 23 GVPHEGPH-APPPAPPHQPPAPRASRSMFLAFLGLIGLQCVCSIAFLYRAQMDPNE 81

OY 61 DSTHCFYRLRHENADQDSTLESDT--LPDSCRMKAQFOGAVKELOHIVGPOFRS 118
D9 82 DGTHCFYRLRHENADQDSTLESDTLPDSCRMKAQFOGAVKELOHIVGSOHIR 141

D9 82 DGTHCFYRLRHENADQDSTLESDTLPDSCRMKAQFOGAVKELOHIVGSOHIR 141

OY 119 GAPAMMGSWLDVAQRKPEAOPFAHTINASIPSGSHKVLSWHDGRAKISMTLN 178
D9 142 AEKAMVGDSSWLDLAKRSLRLEOPFAHTINADTIPSGSHKVLSWHDGRWAKISMTLN 201

D9 142 AEKAMVGDSSWLDLAKRSLRLEOPFAHTINADTIPSGSHKVLSWHDGRWAKISMTLN 201

OY 179 SNGKLRVNYQDGFFYLYANICCRHETSGSVPTDYLQMLMVVTKTSKIPSSHNLKGSTLN 238

OY 202 SNGKLRVNYQDGFFYLYANICCRHETSGSVPTDYLQMLMVVTKTSKIPSSHNLKGSTLN 261

OY 239 KWWSGNSEFHFVISINVGGFKRAGEEFTISIQVNSNPSLLDDODATYGAFKVQDID 294
D9 262 KWWSGNSEFHEFSINVGGFKRAGEEFTISIQVNSNPSLLDDODATYGAFKVQDID 317

Sequence 13, Application US/09877650
Patent No. US2002016917A1

GENERAL INFORMATION:

APPLICANT: Anderson, Dirk M.

Galibert, Laurent

Marakovsly, Eugene

TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunex Corporation, Law Department

STREET: 51 University Street

CITY: Seattle

STATE: WA

COUNTRY: USA

ZIP: 98101

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: Apple Power Macintosh

OPERATING SYSTEM: Apple Operating System 7.5.5

SOFTWARE: Microsoft Word for Power Macintosh 6.0.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/877,650

FILING DATE: 08-Jun-2001

CLASSIFICATION: <Unknown>

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: 08/995,659

FILING DATE: 1997-12-22

APPLICATION NUMBER: USN 08/813,509

FILING DATE: 07-MARCH-1997

APPLICATION NUMBER: USN 08/772,330

FILING DATE: 23-DECEMBER-1996

ATTORNEY/AGENT INFORMATION:

NAME: Perkins, Patricia Anne

REGISTRATION NUMBER: 34,693

REFERENCE/DOCKET NUMBER: 2852-A

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 587-0430

TELEFAX: (206) 233-0844

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 317 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 13:

US-09-877-650-13

Query Match 85.0%; Score 1326.5; DB 10; Length 317;
Best Local Similarity 84.5%; Pred. No. 1.5e-122; Mismatches 250; Conservative 16; Indels 3; Gaps 2; Matches 250; MisMatches 27;

US-10-218-547-22

Query Match 85.0%; Score 1326.5; DB 15; Length 317;
Best Local Similarity 84.5%; Pred. No. 1.5e-122; Mismatches 250; Conservative 16; Indels 3; Gaps 2; Matches 250; MisMatches 27;

QY 1 GVPHEGPLPARAPARPPAMSRSPFLALIGLGLGQVWSIALEYFRQMDPRISE 60
Db 23 GAPHEGPLH-APPAPPAPHOOPPAMRSRMVALLGIGLGLQVWSVALFYFRQMDPRISE 81
Qy 61 DSHCFYRRLRLENADQDSEEDT-LDSCREMKQROGAVQKELQHIVGQRFPS 118
Db 82 DGTHCYRIRLRENADFOOTLLESQDTKLIPDSRRRIKQAFQAVQKELQHIVGQH 141
Qy 119 GAPAMMECSWLDYQAQRGKPEAQPAFPALTTINASIPSGSKHTLSSWHDRGWAKISNMTL 178
Db 142 AERKWDGSDWLAKRSRLEAPFAHTIANDPDSGSHKVLSLSSTYHDROWAKISNMTF 201
Qy 179 SNKLKVWQDGFLYLYANICFRHETGSVPIPDYQMVYVTKSIRPSHSNLAKGGST 238
Db 202 SNKLKVWQDGFLYLYANICFRHETGSVPIPDYQMVYVTKSIRPSHTLMKGST 261
Qy 239 KWNSGNSEPHFSINVGGFFKLRRAGEEISIOVNSNPSLIDPQDATYFGAFKVID 294
Db 262 KWNSGNSEPHFSINVGGFFKLRSGEERISTEVSNPSLIDPQDATYFGAFKVID 317

RESULT 13

US-10-017-910-2

; Sequence 2, Application US/10017910
; Publication No. US2002015997A1

GENERAL INFORMATION:

APPLICANT: Choi, Yongwan
; Wong, Brian
; Josien, Regis
; Steinman, Ralph

TITLE OF INVENTION: A PROTEIN BELONGING TO THE TNF SUPERFAMILY INVOLVED IN SIGNAL TRANSDUCTION, NUCLEIC ACIDS ENCODING METHODS OF USE THEREOF

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Klauber & Jackson
STREET: 411 Hackensack Avenue, 4th Floor
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

RESULT 12

APPLICATION NUMBER: US/10/017,910
 FILING DATE: 14-Dec-2001
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 09/447,035
 FILING DATE: 1999-11-22
 ATTORNEY/AGENT INFORMATION:
 NAME: Jackson Esq., David A.
 REGISTRATION NUMBER: 26,742
 REFERENCE/DOCKET NUMBER: 600-1-200
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 201-487-5800
 TELEFAX: 201-343-1684
 TELEX: 13321
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 245 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 US-10-017-910-2.

Query Match 71.0%; Score 1108; DB 14; Length 245;
 Best Local Similarity 84.5%; Pred. No. 3.9e-101; Mismatches 207; Conserv. 14; Indels 2; Gaps 1;
 Matches 207; Conservative 14; Mismatches 22; Indels 2; Gaps 1;
 Qy 52 QMDPDRNISSEPSDTHCFYRILRLHENADLQSTDTELESDTT-LPDSCRMKAFOGAVQKELQ 109
 Db 1 QMDPDRNISSEPSDTHCFYRILRLHENADLQSTDTELESDTT-LPDSCRMKAFOGAVQKELQ 60
 Qy 110 HIVGPORFSGPAPMEGGSWIDVAQNGKEPEQPAHLTINASIPSGSKVTLSSWYHDRG 169
 Db 61 HIVGSHOIRAKBAMWDGLAKSKLEQPAHLTINASIPSGSKVTLSSWYHDRG 120
 Qy 170 WAKISNMTLSNGKIRVNQDGFFYLYANICRHERHTSGSVPTDYQLMVVVKTSKIPSS 229
 Db 121 WGKISNMTFSNGKLVNQDGFFYLYANICRHERHTSGDLATEYQLMVVVKTSKIPSS 180
 Qy 230 HNLMKGGSTKRWGSGNSEFHYSINVGGFFLRAGEEISIOTSNSNPSLLDDQDATYFGAEEK 289
 Db 181 HTLMKGGSSTKRWGSGNSEFHYSINVGGFFLRSGBEISIEVSNPSLLDDQDATYFGAEEK 240
 Qy 290 VDID 294
 Db 241 VRDID 245
 RESULT 14
 JS-09-770-050A-14

; Sequence 14, Application US/09779050A
 ; Patent No. US2002016016A1
 GENERAL INFORMATION:
 APPLICANT: BOYLE, WILLIAM
 APPLICANT: HSU, HAILING
 TITLE OF INVENTION: RECEPTOR FROM TNF FAMILY
 FILE REFERENCE: A-570B
 CURRENT APPLICATION NUMBER: US/09/779,050A
 CURRENT FILING DATE: 2001-02-12
 PRIOR APPLICATION NUMBER: 60/181,800
 PRIOR FILING DATE: 2000-02-11
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: Patentin version 3.0
 SEQ ID NO: 14
 LENGTH: 160
 TYPE: PRT
 ORGANISM: MUS musculus
 US-09-779-050A-14

Query Match 54.8%; Score 855; DB 10; Length 160;
 Best Local Similarity 100.0%; Pred. No. 2e-76; Mismatches 0; Indels 0; Gaps 0;
 Matches 160; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 135 GKPEOPFAHLTINASIPSGSKVTLSSWYHDRGAKLNSMTLSNGKLRVNQDGFFYLY 194
 Db 1 GKPEOPFAHLTINASIPSGSKVTLSSWYHDRGAKLNSMTLSNGKLRVNQDGFFYLY 60
 Qy 195 ANICFRHETSGSVPTDYLOQIMVYVTKTSKIPSSHNLMGGSTKRNWSNEFFYFINSY 224
 Db 61 ANICFRHETSGSVPTDYLOQIMVYVTKTSKIPSSHNLMGGSTKRNWSNEFFYFINSY 120
 Qy 255 GGFKLURAGEEISIOTSNSNPSLLDDQDATYFGAFKVQDID 294
 Db 121 GGFKLURAGEEISIOTSNSNPSLLDDQDATYFGAFKVQDID 160

RESULT 15
 US-09-791-153A-76

; Sequence 76, Application US/09791153A
 ; Publication No. US20030103978A1
 GENERAL INFORMATION:
 APPLICANT: Deshpande, Rajendra
 APPLICANT: Hitz, Anna
 APPLICANT: Boyce, William
 APPLICANT: Sullivan, John

; TITLE OF INVENTION: SELECTIVE BINDING AGENTS OF OSTEOPROTEGERIN BINDING PROTEIN
 FILE REFERENCE: A-632A
 CURRENT APPLICATION NUMBER: US/09/791,153A
 CURRENT FILING DATE: 2001-07-17
 PRIOR APPLICATION NUMBER: 09/511,139
 PRIOR FILING DATE: 2000-07-23
 NUMBER OF SEQ ID NOS: 154
 SOFTWARE: Patentin version 3.0
 SEQ ID NO: 76
 LENGTH: 170
 TYPE: PRT
 ORGANISM: Mus musculus
 US-09-791-153A-76

Query Match 53.2%; Score 830; DB 11; Length 170;
 Best Local Similarity 97.5%; Pred. No. 6.4e-74; Mismatches 155; Conserv. 97; Indels 0; Gaps 0; Matches 155; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 136 KPEOPFAHLTINASIPSGSKVTLSSWYHDRGAKLNSMTLSNGKLRVNQDGFFYLY 195
 Db 12 KPEOPFAHLTINASIPSGSKVTLSSWYHDRGAKLNSMTLSNGKLRVNQDGFFYLY 71
 Qy 196 NICRHERHTSGSVPTDYQLMVVVKTSKIPSSHNLMGGSTKRNWSNEFFYFINSY 255
 Db 72 NICRHERHTSGDLATEYQLMVVVKTSKIPSSHNLMGGSTKRNWSNEFFYFINSY 170
 Qy 256 GGFFLRAGEEISIOTSNSNPSLLDDQDATYFGAFKVQDID 294
 Db 132 GGFFLRAGEEISIOTSNSNPSLLDDQDATYFGAFKVQDID 170

Search completed: September 11, 2003, 09:00:16
 Job time : 195 secs

RESULT 1:
US-08-989-362-1
Sequence 1, Application US/08989362
; Patent No. 6242586

GENERAL INFORMATION:

APPLICANT: Gorman, Daniel M.

APPLICANT: Matison, Jeanine D.

TITLE OF INVENTION: Mammalian Cell Surface Antigens; Related

NUMBER OF SEQUENCES: 2

CORRESPONDENCE ADDRESS:

DNAX Research Institute

STREET: 901 California Avenue

CITY: Palo Alto

STATE: California

COUNTRY: USA

ZIP: 94304-1104

COMPUTER READABLE FORM:

MEDİUM TYPE: FLOPPY disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/989,362

FILING DATE: 12-DEC-1997

CLASSIFICATION: 56

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: US 50/032,846

FILING DATE: 13-DEC-1996

ATTORNEY/AGENT INFORMATION:

NAME: Ching, Edwina P.

REGISTRATION NUMBER: 34,090

REFERENCE/DOCKET NUMBER: DX0686

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650)466-1204

TELEFAX: (650)466-1204

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 2191 base pairs

TYPE: nucleic acid

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 125..,1072

US-08-989-362-1

Query Match 99.1%; Score 1615.8; DB 3; Length 2191;
 Best Local Similarity 99.8%; Pred. No. 0; Mismatches 0; Mismatches 1628; Conservative 0; Indels 2; Gaps 1;

QY	1 CGGGCGGCCACAGGAGGTGGCTGCACCGCGCTTCGGCCCGCGC 60
Db	189 CGGGGCCCCACAGGAGGTGGCTGCACCGCGCCGCTCGACCGCTCGGCCGC 248
QY	61 GACCGGGCGCTCCGGCTCATGTTCTGGCCCTCTGGGGCTGGACCTGG 120
Db	249 CACCCGGCGGCCCTCCGGCTCACAGGAGGTGGCCAGGGCTGGG 308
QY	181 AGACAGACACTACTGCTTATGAGTCTGAGCTTGAGCTGGAGA 180
Db	369 AGACAGACACTGCTTATGAGTCTGAGCTTGAGCTGGAGA 428
QY	241 ACTGAGCTCTGGAGAGACACATACCTGACTCTGAGGAGTGAACA 300
Db	429 ACTGAGCTCTGGAGAGACACATACCTGACTCTGAGGAGTGAACA 488
QY	301 TTCAGGGGGCGCTGGCAAGAGGAAGTGCACACAACTGGGGCAACAGGCTTCAGGG 360
Db	489 TTCAAGGGGGCGCTGGCAAGAGGAAGTGCACACATGGGGCAACAGGCTTCAGGG 548
QY	361 CTCCAGCTATGATGGAAGGCTCATGGTGTGGCCAGCGAGGCAACGCC 420

Older work

Db 549 CTCCAGCTATGATGGAAGGCTCATGGTGTGGCCAGCGAGGCTTCAGGCC. 608
 QY 421 AGCCATTGCAACTCACCACATCTGCGAGCATCCATOGGGTCCATAAGCA 480-
 Db 609 AGCCATTGCAACTCACCACATCTGCGAGCATCCATOGGGTCCATAAGCA 668
 QY 481 CTCCTCTCTGGTACCGATGCGASGCTGSGCCAGATCTCTAACATGAGTTAGCA 540-
 Db 669 CTCGTCCTCTGTGAGCTGAGCTGAGGCTGGGCCAGAAGCTCTAACATGAGCTTAAGCA 728
 QY 541 ACGGAAACTTGGTTTACCAAGATGCGCTCTTACCTGTAGGCCACATTTGCTTC 600
 Db 729 ACGRGAAACTAAGGGTTRACCAAGATGGCCTCTAACCTACCTGTAGGCCACATTTGCTTC 788
 QY 601 GGCACTCATGAAACATGGGAGCCTACAGCTATCTTACCTGTAGGCCACATTTGCTTC 660
 Db 789 GGCACTCATGAAACATGGGAGCCTACAGCTATCTTACCTGTAGGCCACATTTGCTTC 848
 QY 721 ACTGCTGGGCAATCTGAATTCACCTTTATCCAATGTTGGGGATTTTCAGC 780
 Db 909 ACTGCTGGGCAATCTGAATTCACCTTTATCCAATGTTGGGGATTTTCAGC 968
 QY 781 TCCAGCTGGAGAGATTGACATCGGGTCCACCCCTCCCGCTGGATCCGGATC 840
 Db 901 GACGATTAGCATGATGCTCTAGAATGTTGGAACTCTTAAAAAAGGATCTGCTAT 960
 Db 969 TCCAGCTGGGCAATCTGAATTCACCTTTATCCAATGTTGGGGATTTTCAGC 1028
 QY 841 ATGATGCCAGCTCTGGGCTTCAGTCAGTGGACATGAGACTCATTCAGTG 900
 Db 1029 AACATGCGACTCTTGGGCTTCAGATGTCAGGACATAGCTGAGACTCATTCAGTG 1088
 QY 781 TCCAGCTGGGCAATCTGAATTCACCTTTATCCAATGTTGGGGATTTTCAGC 840
 Db 901 GACGATTAGCATGATGCTCTAGAATGTTGGAACTCTTAAAAAAGGATCTGCTAT 960
 Db 1089 GACGATTAGCATGATGCTCTAGAATGTTGGAACTCTTAAAAAAGGATCTGCTAT 1148
 QY 951 ATCAGTGTAGACTACTAAGAGCATGGCCACGGGTATGAAACTCACGCCCTCIC 1020
 Db 1090 GACGATTAGCATGATGCTCTAGAATGTTGGAACTCTTAAAAAAGGATCTGCTAT 1208
 Db 1149 ACTATGTGATGACTACTAAGAGCATGGCCACGGGTATGAAACTCACGCCCTCIC 1208
 QY 1021 TTGACCTGTACAGCTGTTAGTGAATGCTTAGTGTAGTTAGATCTGGTAT 1080
 Db 1209 TTGACCTGTACAGCTGTTAGTGAATGCTTAGTGTAGTTAGATCTGGTAT 1268
 QY 1081 TACACACAGGTTTACATTGTTAGTGAATGCTTAGTGTAGTTAGATCTGGTAT 1139
 Db 1269 TACACACAGGTTTACATTGTTAGTGAATGCTTAGTGTAGTTAGATCTGGTAT 1328
 QY 1140 TATTCGATGCTGATGAAACTTACGTCAGTGGCTAGTGGCTACGTCTGG 116
 Db 1329 TATTCGATGCTGATGAAACTTACGTCAGTGGCTACGTCTGG 1388
 QY 1200 TATTCGATGCTGATGAAACTTACGTCAGTGGCTACGTCTGG 1259
 Db 1389 TCTAACCTGTGACATGTCAGCTGAGACCTTGAGATTAAGATGCGCTTCAGTC 1448
 QY 1260 AAAGAAATGATGCTGAGGGTTAAGTCTTGTAGTGTACATGCGCTGGACCTG 1319
 Db 1449 AAAGAAATGATGCTGAGGGTTAAGTCTTGTAGTGTACATGCGCTGGACCTG 1508
 QY 1320 CAAATAGCTTCTTCTATAGGAGGAGAAATATGTTATTTATATGCT 1379
 Db 1509 CAATAGCTTCTTCTATAGGAGGAGAAATATGTTATTTATATGCT 1568
 QY 1440 TAGTATGATGAAATTTAAATCTCACTGTTGACATATTGTTTAAT 1440
 Db 1380 AAAGTATATTCTAGGTGATGTTCTGCGAAGTTGTAATTTATGCT 1439
 QY 1569 AAAGTATATTCTAGGTGATGTTCTGCGAAGTTGTAATTTATGCT 1428
 Db 1440 TAGTATGATGAAATTTAAATCTCACTGTTGACATATTGTTTAAT 1440

Human; osteoprotegerin binding protein; OPG binding protein; arthritis; osteoporosis; osteoclast maturation; bone disease; metastasis; ODR; hypercalcemia; osteoclast differentiation and activation receptor; ODR; Paget's disease.

Homo sapiens.

W09846751-A1.

22-OCT-1998.

15-APR-1998; 98WO-US07584.

30-MAR-1998; 98US-0052521.

23-JUN-1997; 97US-080855.

(PANGE-) AMGEN INC.

Boyle WJ;

WPI; 1998-594578/50.

N-PSDB; V70284.

NUCLEIC ACID ENCODING OSTEOPROTEGERIN BINDING PROTEIN - USEFUL FOR

TREATMENT AND FOR DIAGNOSIS

Claim 19; Fig 1; 47PP; English.

The present sequence is human osteoprotegerin (OPG) binding protein.

Host cells transfected with vectors containing nucleic acid molecules

encoding OPG binding protein are used to produce recombinant OPG binding

protein. OPG binding protein is used in binding assays to determine

osteoprotegerin (OCIF) in biological samples; to screen for specific

binding agents (particularly agonists and antagonists, including

intracellular proteins); to raise Ab (useful in immunoassays for

detection of OPG binding protein) and to identify compounds that

modulate binding of OPG binding protein to osteoclast differentiation

and activation receptor (ODAR). The nucleic acid molecule encoding OPG

binding protein can be used to detect OPG binding protein-encoding

sequences, e.g. screening for related sequences, also to produce

antisense regulation of OPG binding protein expression. Modulators of

OPG binding protein, particularly soluble forms of OPG binding protein

or Ab, are used to treat or prevent bone diseases, e.g., osteoporosis,

bone loss caused by arthritis or metastasis, hypercalcemia, Paget's

disease, periodontal disease, osteoporosis, loosening of prostheses,

optionally in combination with agents that promote bone growth.

Sequence 316 AA:

Query Match 99.6%; Score 1554; DB 19; Length 316;

Best Local Similarity 99.7%; Pred. No. 3.1e-140; Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

SQ 1 GYPHEGSPHLHAPSAPAPPAAASRSMFLALIGLGIGQVCSIALFLYRAQMDPNRISE 60

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23-gyphegsplhhapsapappaaasrsmflaliglgigqvcialiflyfragdpnri 82

61 DSTHEFYRIRLHENADLOSTLESDTLDSCREMKAFOGAVOKERORIVQPRESGA 120

||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

83 dsthfyrlhenaglqdstlesedtldscrmkafqgavqkeiqlihvpgfrsga 142

121 PAMMGWSLWDVAQRKPEAQPFHNLNTINASIPGSKHVTLLSWYHDROWAKSNMISN 180

||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

143 pammgslwvaqrgkpeaqdfahlntiasipsgshktllswyhdrowaksnm 202

QY 1 GKLRYNQDGYYLYANICCPHRHESGSPWPDYLMLWVYKVKISKIPSMNLKGGSKRN 240

||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

203 gkrlvngdgyylyanicfrhetsgsrvptdylqlmvyywvtskipshplmkgtkn 262

QY 241 WSGNSEFHYSINTGGFFRLRAGEEISIOVSPLSLPDDATYFGALKVQDID 294

||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Db 263 wsgnsefhysinvggffkrlageelsqvspslplpdqatytatkvdid 316

RESULT 4

W83017

ID W83017-standard; Protein; 316 AA.

XX W83017;

XX 10-FEB-1999 (first entry)

XX DE

XX Osteoclastogenesis inhibitory factor (OCIF)-binding molecule (OBM).

XX KW osteoclast; bone absorption factor; bone disorder; calcium metabolism.

XX OS unidentified.

XX PN W09846644-A1.

XX PD 22-OCT-1998.

XX XX 15-APR-1998; 98WO-JP01728.

XX PR 02-DEC-1997; 97JP-0332241.

PR 15-APR-1997; 97JP-0097808.

PR 09-JUN-1997; 97JP-0151434.

PR 12-AUG-1997; 97JP-0217897.

PR 21-AUG-1997; 97JP-0224803.

PA (SNOW) SNOW BRAND MILK PROD CO LTD.

XX PI Goto M, Higashio K, Kinosaki M, Kobayashi F, Norinaga T;

PI Nakagawa N, Shima N, Takahashi K, Tomoyasu A, Tsuda E;

PI Washida N, Yamaguchi K, Yano K, Yasuda H;

DR WPI; 1998-594563/50.

DR N-PSDB; V69886.

XX PT Protein binding to osteoclastogenesis inhibitory factor - useful

for, e.g. treatment and investigation of disorders of bone and

calcium metabolism

XX PS Claim 8; Pages 106-108; 151PP; Japanese.

XX CC The present sequence represents an osteoclastogenesis inhibitory factor

(OCIF)-binding molecule (OBM). The protein promotes and supports the

separation and maturation of osteoclasts in the presence of bone

absorption factors such as calcitonin or parathyroid hormone (PTH).

OBM is isolated from stroma cells cultured in the presence of a bone

absorption factor by separation and solubilisation of membrane proteins

and affinity chromatography using OCIF. It exists in a full-sequence

form and a solubilised form (sOBM) which is a shorter chain. OBM may be

used for screening potential inhibitors and modifiers of its biological

activity, and screening for receptors to OBM which mediate its function.

These substances can then be used in the treatment of disorders of bone

function and calcium metabolism. The antibodies can be used for assay

of the protein, for investigative and diagnostic purposes, and as

components of drugs.

XX SQ Sequence 316 AA;

Query Match 99.6%; Score 1554; DB 19; Length 316;

Best Local Similarity 99.7%; Pred. No. 3.1e-140; Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

SQ 1 GYPHEGSPHLHAPSAPAPPAAASRSMFLALIGLGIGQVCSIALFLYRAQMDPNRISE 60

||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

23-gyphegsplhhapsapappaaasrsmflaliglgigqvcialiflyfragdpnri 82

Db 1629 TAGTATTGTTCAAAATTTAAAGCTCTCACTGGACATTTATGTTAAT 1688
 Qy 1500 GTACAGATGATPATTACTGACTGTGCACTTGTAAATGCCCTGAGGACTGTTAGCTAAGGG 1559
 Db 1689 GTACAGATGATPATTACTGACTGTGCACTTGTAAATGCCCTGAGTACTGTAGCG 1748
 Qy 1560 GGCAGAATCTGTTCTGGGACCACATGAGTATTCCTTACTTAAAT 1619
 Db 1749 GGCAGAATCTGTTCTGGGACCACATGAGTATTCCTTACTTAAAT 1808
 Qy 1620 AGAGCTTCAG 1650
 Db 1809 AGACTCTTCAG 1819

SEQUENCE DESCRIPTION: SEQ ID NO: 2:

Query Match 99.5%; Score 1554; DB 12; Length 316;
 Best Local Similarity 99.7%; Pred. No. 5 2e-145;
 Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Oy 1 GVPHEGLHPARSAPAPPAASRSFLALIGIGQVVSIALPLYFRAOMDPNRISE 60
 Db 23 GVPHEGLHPARSAPAPPAASRSFLALIGIGQVVSIALPLYFRAOMDPNRISE 60
 Qy 61 DSTHCFYRILMENADLQSTLESEDTLPDSCKRMQAFQAVYKELQLIVGPORFGA 120
 Db 83 DSTHCFYRILMENADLQSTLESEDTLPDSCKRMQAFQAVYKELQLIVGPORFGA 120
 Qy 121 PAMMEGSLWIDVAORGKPEOPFAHNTINASIPSGSHKYLSSWYHDSWAKISNTLSN 180
 Db 143 PAMMEGSLWIDVAORGKPEOPFAHNTINASIPSGSHKYLSSWYHDSWAKISNTLSN 180
 Qy 181 GLKLYNQOGFYXKANIFPRHETSGSPPTDYLQLMVYVKISKIPSHNLMKGGSKN 202
 Db 203 GLKLYNQOGFYXKANIFPRHETSGSPPTDYLQLMVYVKISKIPSHNLMKGGSKN 240
 Qy 241 WSGNSEPHFYSINVGGFFKLRAGEETISIQVSNSPSLUDPDQDAMYFGFKVQDID 262
 Db 263 WSGNSEPHFYSINVGGFFKLRAGEETISIQVSNSPSLUDPDQDAMYFGFKVQDID 294
 316

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ON nucleic - nucleic search, using sw model

Run #: September 10, 2003, 21:20:54 ; Search time 108 seconds

Title: (without alignments) 6661.616 Million cell updates/sec

Perfect score: US-09-688-459-10

Scoring table: IDENTITY_NUC 1 CGGGCCCTCCACAGGAGGT..... TAACATTAATAGCTCTTCAG 1630

Sequence: GAPCOP 10.0 , Gapext 1.0

Searched: 559978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Issued_Patents_NA:*

1: /egn2_6/podata/2/ina/5A_COMB.seq:*

2: /egn2_6/podata/2/ina/5B_COMB.seq:*

3: /egn2_6/podata/2/ina/5K_COMB.seq:*

4: /egn2_6/podata/2/ina/6B_COMB.seq:*

5: /egn2_6/podata/2/ina/8CTUS_COMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID Description

1 1630 100.0 1630 3 US-09-996-139-10 Sequence 10, Appl

2 1630 100.0 1630 3 US-09-997-659-10 Sequence 10, Appl

3 1630 100.0 1630 3 US-09-235-649-10 Sequence 10, Appl

4 1630 100.0 1630 4 US-09-577-780-10 Sequence 10, Appl

5 1630 100.0 1630 4 US-09-577-800-10 Sequence 10, Appl

6 1630 100.0 1630 4 US-09-466-496-10 Sequence 10, Appl

7 1630 100.0 1630 4 US-09-871-856-10 Sequence 10, Appl

8 1630 100.0 1630 4 US-09-871-291-10 Sequence 10, Appl

9 1628 4 99.9 289 2 US-08-82-842-6 Sequence 6, Appl

10 1628 4 99.9 225 4 US-09-052-521-C-1 Sequence 1, Appl

11 1515.8 99.1 2191 3 US-08-983-362-1 Sequence 1, Appl

12 1515.8 99.1 2191 4 US-09-671-658-1 Sequence 1, Appl

13 57.6 95.6 2271 4 US-09-052-521-C-3 Sequence 3, Appl

14 61.5 37.7 954 3 US-08-990-139-12 Sequence 12, Appl

15 61.5 37.7 954 3 US-08-995-659-12 Sequence 12, Appl

16 61.5 37.7 954 3 US-09-215-649-12 Sequence 12, Appl

17 61.5 37.7 954 4 US-09-577-780-12 Sequence 12, Appl

18 61.5 37.7 954 4 US-09-577-800-12 Sequence 12, Appl

19 61.5 37.7 954 4 US-09-466-496-12 Sequence 12, Appl

20 61.5 37.7 954 4 US-09-856-12 Sequence 12, Appl

ALIGNMENTS

Patent No.	RESULT ¹	US-09-996-139-10	; Sequence 10, Application US/08996139
GENERAL INFORMATION:			
APPLICANT: Anderson, Dirk M.			
APPLICANT: Galibert, Laurent			
APPLICANT: Marashovsky, Eugene			
TITLE OF INVENTION: Receptor Activator of NF-kappaB			
NUMBER OF SEQUENCES: 19			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: Immunex Corporation, Law Department			
STREET: 51 University Street			
CITY: Seattle			
STATE: WA			
COUNTRY: USA			
ZIP: 98101			
COMPUTER READABLE FORM:			
MEDIUM TYPE: Floppy disk			
COMPUTER: Apple Power Macintosh			
OPERATING SYSTEM: Apple Operating System 7.5.5			
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/08/996,139			
FILING DATE: 22 DECEMBER 1997			
CLASSIFICATION: PRIORITY APPLICATION DATA:			
APPLICATION NUMBER: USN 60/064,671			
PRIORITY APPLICATION DATA:			
FILING DATE: 14 OCTOBER 1997			
APPLICATION NUMBER: USN 08/813,509			
FILING DATE: 07 MARCH 1997			
PRIORITY APPLICATION DATA:			
APPLICATION NUMBER: USN 08/772,330			
FILING DATE: 23 DECEMBER 1996			
ATTORNEY/AGENT INFORMATION:			
NAME: Perkins, Patricia Anne			
REGISTRATION NUMBER: 34,693			
REFERENCE/DOCKET NUMBER: 2851-A			
TELECOMMUNICATION INFORMATION:			
TELEPHONE: (206)587-0430			
TELEFAX: (206)233-0644			
INFORMATION FOR SEQ ID NO: 10:			
SEQUENCE CHARACTERISTICS:			
LENGTH: 1630 base pairs			
SEQUENCE TYPE: nucleic acid			
STRANDEDNESS: single			
TOPOLOGY: linear			
MOLECULE TYPE: cDNA			
HYPOTHETICAL: NO			

MEDIUM TYPE: Floppy disk
 COMPUTER: Apple Power Macintosh
 OPERATING SYSTEM: Apple Operating System 7.5.5
 CURRENT APPLICATION DATA:
 SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
 APPLICATION NUMBER: US/08/995,659
 FILING DATE: 22 DECEMBER 1997
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: USSN 60/064,671
 FILING DATE: 14 OCTOBER 1997
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: USSN 08/813,509
 FILING DATE: 07 MARCH 1997
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: USSN 08/772,330
 FILING DATE: 23 DECEMBER 1996
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Perkins, Patricia Anne
 REGISTRATION NUMBER: 34,693
 REFERENCE/DOCKET NUMBER: 2852-A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)587-0430
 TELEFAX: (206)233-0644
 INFORMATION FOR SEQ ID NO: 10:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1630 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 SYNTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: MUS musculus
 IMMEDIATE SOURCE:
 LIBRARY:
 CDS:
 NAME/KEY: CDS
 LOCATION: 3..884
 US-08-995-659-10
 Quality Match 100.0%; Score 1630; DB 3; Length 1630;
 Best: Local Similarity 100.0%; Pred. No. 0; Gaps 0;
 Matches 1630; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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 Db 1 CGGGCGTCCCACAGGAGGTGGCTCGTCACGGGCTCGGCCGC 60
 Qy 61 GACCCGCGCCACGGGGCTCCATGTTCTGGCCTCTGGGCTGGACTGGG 120
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 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/995, 659
 FILING DATE: <Unknown>
 APPLICATION NUMBER: USN 08/813, 509
 FILING DATE: 07 MARCH 1997
 APPLICATION NUMBER: USN 08/772, 330
 FILING DATE: 23 DECEMBER 1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Perkins, Patricia Anne
 REGISTRATION NUMBER: 34, 693
 REFERENCE/DOCKET NUMBER: 2852-A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (205) 587-0430
 TELEFAX: (205) 233-0644
 INFORMATION FOR SEQ ID NO: 10:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1630 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 ORGANISM: Mus musculus
 IMMEDIATE SOURCE: LIBRARY: <Unknown>
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 CLONE: RANKL
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 3..884
 SEQUENCE DESCRIPTION: SEQ ID NO: 10:
 US-09-577-180-10
 Query Match 100%; Score 1630; DB 4; Length 1630;
 Best Local Similarity 100%; Pred. No. 0;
 Matches 1630; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 APPLICANT: Anderson, Dirk M.
 Galbert, Laurent
 Marakovskiy, Eugene
 TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
 NUMBER OF SEQUENCES: 19
 GENERAL INFORMATION:
 PATENT NO. 6,19929
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immunex Corporation, Law Department
 STREET: 51 University Street
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 COMPUTER: Apple Power Macintosh
 OPERATING SYSTEM: Apple Operating System 7.5.5
 SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/577,780
 FILING DATE: 24-MAY-2000

Query Match 100.0% Score 1630; DB 4; Length 1630;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1630; **Conservative**; 0; Mismatches 0; Indels 0;

; ORGANISM: MUS musculus
; IMMEDIATE SOURCE:
; LIBRARY:
; CLONE: RANKL
FEATURE:
NAME/KEY: CDS
LOCATION: 3..884
US-09-577-800-10

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:

INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 1630 base pairs
TYPE: nucleic acid

TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644

REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A
TER COMMUNICATION INFORMATION

FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne

PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/772,330

PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1987

PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 60/064,671
FILING DATE: 14 OCTOBER 1997

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/996,139
FILING DATE: 22 DECEMBER 1997

FILING DATE: 24-MAY-2000
CLASSIFICATION:
PRIORITY NUMBER: 0000000000

SOFTWARE: Microsoft Word for Power Macintosh
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/577 800

MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System

ZIP: 98101
COMPUTER READABLE FORM:

CITY: Seattle
STATE: WA
COUNTRY: USA

CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law
STREET: 51 University Street

TITLE OF INVENTION: Receptor Activator
NUMBER OF SEQUENCES: 19

APPLICANT: Anderson, Dirk M.
APPLICANT: Galibert, Laurent
APPLICANT: Marakovskii, Evgenia

Sequence 10 Application 05/09577800
; Patent No. 6479635
; GENERAL INFORMATION:

RESULT 5
US-09-577-800-10

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 QY 351 CTCCAGCTATGATGGAGGCTCATGGTGTGGATGGAGGCTGGGCC 420
 Db 351 CTCCAGCTATGATGGAGGCTCATGGTGTGGATGGAGGCTGGGCC 420
 QY 421 AGCCATTGACACCTTCACATCATGTTGGCCACATGCCATGGTTCCATAAGTC 480
 Do 421 AGCCATTGACACCTTCACATCATGTTGGCCACATGCCATGGTTCCATAAGTC 480
 QY 481 CTCTGCTCTTGTGACAGCTGAGGCTGGGCCAAGATCTTAAGTAGAGTTAACGA 540
 Do 481 CTCTGCTCTTGTGACAGCTGAGGCTGGGCCAAGATCTTAAGTAGAGTTAACGA 540
 QY 541 ACGGAAACTAAGGGTACCAAGATGCTCTTACACTGTTAGGCAACATTTGCTTC 600
 Do 541 ACGGAAACTAAGGGTACCAAGATGCTCTTACACTGTTAGGCAACATTTGCTTC 600
 QY 601 GGCACTCATGAAACATCGGAAAGCGTACCCACAGACTCTCGTGTGTTGTCG 660
 Do 601 GGCACTCATGAAACATCGGAAAGCGTACCCACAGACTCTCGTGTGTTGTCG 660
 QY 651 TTAAACACAGCAAAATCCCAAGTTCTCATACCTGATGAAAGGAGGAGCAA 720
 Do 651 TTAAACACAGCAAAATCCCAAGTTCTCATACCTGATGAAAGGAGGAGCAA 720
 QY 721 ACTGGTGGCAATTCGAATTCGATCTTATCCATAAGTGGGGATTTCACSC 780
 Do 721 ACTGGTGGCAATTCGAATTCGATCTTATCCATAAGTGGGGATTTCACSC 780
 QY 781 TCGAGCTGGTAAAGAAATTGACATGTTGGGATCCACCTTCGCGATCGGATC 840
 Do 781 TCGAGCTGGTAAAGAAATTGACATGTTGGGATCCACCTTCGCGATCGGATC 840
 QY 841 AAGATGGGACCTACTGGSCTTCAAAGTCAGGACATAGACTGAGACTTTCGG 900
 Do 841 AAGATGGGACCTACTGGSCTTCAAAGTCAGGACATAGACTGAGACTTTCGG 900
 QY 901 GACATGTTGAGCTGGGTTGAACTCTCTTAAGAAATGATGATGATGTCAT 960
 Do 901 GACATGTTGAGCTGGGTTGAACTCTCTTAAGAAATGATGATGATGTCAT 960
 QY 951 ACATGTTGAGCTACTAAGAGAATGGCCACGGTGTGAGACTCAAGCCCTCTC 1020
 Do 951 ACATGTTGAGCTACTAAGAGAATGGCCACGGTGTGAGACTCAAGCCCTCTC 1020
 QY 1021 TTGAGCTTACAGTGTGAGATGTCATGATGATGATGATGATGATGATGATC 1080
 Do 1021 TTGAGCTTACAGTGTGAGATGTCATGATGATGATGATGATGATGATGATC 1080

QY 1081 TACCAACGGTTACAATTGAAATGATTCCTAGATGACCAAGATGGAGAGT 1140
 Do 1081 TACCAACGGTTACAATTGAAATGATTCCTAGATGACCAAGATGGAGAGT 1140
 QY 1141 ATTCGGATGTTAGAAACTACCTACCTGAGCTATGAAAGGGGTCACAGTCCTGGGT 1200
 Do 1141 ATTCGGATGCTTATGAAACTACCTACCTGAGCTATGAAAGGGGTCACAGTCCTGGGT 1200
 QY 1201 CTAGCCCTGGAGACCTGAGACTGAGACTTGAATAGAGGATGCCATGCA 1260
 Do 1201 CTAGCCCTGGAGACCTGAGACTTGAATAGAGGATGCCATGCA 1260
 QY 1261 AAGAAATGATGTTGAGGTTAAGTCTTGTGACATGCGGTGGGCC 1320
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 QY 1321 AAATAAGTCTTTCATGAGGAGAAATATGTTTATAATAGTC 1380
 Do 1321 AAATAAGTCTTTCATGAGGAGAAATATGTTTATAATAGTC 1380
 QY 1381 AAGTATATTGAGGTTAATGTTCTGCAAGATTGTTAATTTGCTAT 1440
 Do 1381 AAGTATATTGAGGTTAATGTTCTGCAAGATTGTTAATTTGCTAT 1440
 QY 1441 AGTATTGATCAAAATATTAAATGTCACCGTGTGACATATTAAGTTTAATG 1500
 Do 1441 AGTATTGATCAAAATATTAAATGTCACCGTGTGACATATTAAGTTTAATG 1500
 QY 1501 TACAGATGTTACTGCGACTTGTGATTCCTGAGGACTCTGATGTAASGG 1560
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 QY 1561 GCAGATACTGTTGGGACAGGAGTGTGTTTAACTTCTTAACTTAA 1620
 Do 1561 GCAGATACTGTTGGGACAGGAGTGTGTTTAACTTCTTAACTTAA 1620
 QY 1621 GAGTGTGAG 1630
 Do 1621 GAGTGTGAG 1630

RESULT 6
 US-09-465-496-10
 ; Sequence 10. Application US/09466496
 ; Patent No. 652802
 ; GENERAL INFORMATION:
 ; APPLICANT: Anderson, Dirk M.
 ; MARACKOVSKY, Laurent
 ; TITLE OF INVENTION: Receptor Activator of NF-kappaB
 ; NUMBER OF SEQUENCES: 19
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSE: Immunex Corporation, Law Department
 ; STREET: 51 University Street
 ; CITY: Seattle
 ; STATE: WA
 ; COUNTRY: USA
 ; ZIP: 98101
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: Apple Power Macintosh
 ; OPERATING SYSTEM: Apple Operating System 7.5.5
 ; SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09466,496
 ; FILING DATE: 17-Dec-1999
 ; CLASSIFICATION: <Unknown>
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/996,139
 ; FILING DATE: 22-DECEMBER 1997
 ; APPLICATION NUMBER: USSN 60/064,671
 ; FILING DATE: 14-OCTOBER 1997
 ; APPLICATION NUMBER: USSN 08/813,509

FILING DATE: 07 MARCH 1997
 APPLICATION NUMBER: USN 08/772,330
 FILING DATE: 23 DECEMBER 1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Perkins, Patricia Anne
 REGISTRATION NUMBER: 34,693
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)587-0130
 TELEX/FAX: (206)233-0644
 INFORMATION FOR SEQ ID NO: 10:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1630 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: *Mus musculus*
 IMMEDIATE SOURCE:
 LIBRARY: <unknown>
 CLONE: RANKED
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 3..884
 SEQUENCE DESCRIPTION: SEQ ID NO: 10:
 US-09-466-496-10

Query Match 100.0%: Score 1630; DB 4; Length 1630;
 Yes: Local Similarity 100.0%; Pred. No. 0;
 Yatches 1630; Conservative 0; Mismatches 0; Inends 0; Gaps 0;

Qy 1 CGGGCCTCCACACGAGGCCGCTCACCCGCCTTGACCGGTCTCCGGCC 60
 Db 1 CGGGCCTCCACACGAGGCCGCTTGACCGGTCTCCGGCC 60
 Qy 61 CACCCGCCTCCGCATGTCCTGCCCCCTCTGGGGCTGGACTGGCAGGG 120
 Db 61 CACCCGCCTCCGCCTCCATGTCCTGCCCCCTGGGGCTGGACTGGCAGGG 120
 Qy 121 TCTGCAGCATGCTGTGCTGTACTTACGAGCAGATGTTACAGATATCG 180
 Db 121 TCTGCAGCATGCTGTGCTGTACTTACGAGCAGATGTTACAGATATCG 180
 Qy 181 AGACAGCACTCAGCTTATAGAATCTGAGACTCCATGAACCGAGATTG 240
 Db 181 AAGACAGCACTCAGCTGTTATAGAATCTGAGACTCCATGAACCGAGATTG 240
 Qy 241 ACTCGACTCTGGAGATGAGACAACACTACACTCTCGAGGAGGTGAAAC 300
 Db 241 ACTCGACTCTGGAGATGAGACAACACTACACTCTCGAGGAGGTGAAAC 300
 Qy 361 CTCCAGCTATGAGGAAGGCTCTGGTGGATGCCAGAACCTTGAGGGCA 420
 Db 361 CTCCAGCTATGAGGAAGGCTCTGGTGGATGCCAGAACCTTGAGGGCA 420
 Qy 421 AGCCATTGACACCTCACCATATGTCAGGGTCCATTAAGTCA 480
 Db 421 AGCCATTGACACCTCACCATATGTCAGGGTCCATTAAGTCA 480
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 Qy 541 AGCGAAACTAAGGGTACACAGATGAGCTCTATACGCTACGCCAACATTG 600
 Db 541 AGCGAAACTAAGGGTACACAGATGAGCTCTATACGCTACGCCAACATTG 600

Qy 601 GGCAACATGAAACATGGGAGGCTTACGACTATCTTGAGCTGATGGTGTG 660
 Db 601 GGCAACATGAAACATGGGAGGCTTACGACTATCTTGAGCTGATGGTGTG 660
 Qy 661 TAAACCGCATCAAATCCCAAGTCATACCTGATGAAAGAGGGAGCACAAA 720
 Db 661 TTAAACCGCATCAAATCCCAAGTCATACCTGATGAAAGAGGGAGCACAAA 720
 Qy 721 ACTGCTGGCAATTCTGATTCACCTTTATTCATGATTCATACCTGATGGGGTTCAAGC 780
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 Qy 781 TCCAGCTGTGAGAATTAGATCAGGTTGCTCCACCCCTCCCGCTSGATGGAC 840
 Db 781 TCCAGCTGTGAGAATTAGATCAGGTTGCTCCACCCCTCCCGCTSGATGGAC 840
 Qy 841 AAGATGCGGTTACTTGGGCTTCAGAAGTCAGGCAATAGACGAGTCATTCGG 900
 Db 841 AAGATGCGGTTACTTGGGCTTCAGAAGTCAGGCAATAGACGAGTCATTCGG 900
 Qy 901 GACATATAGCATGATGATGCTCTAGATGTTGGAAACTCTTAATAATGGTATGCTAT 960
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 Qy 961 ACATGTGTTAGACTCPAGACACAGGCCACGGGTTAGAACATCACCCCTTC 1020
 Db 961 ACATGTGTTAGACTCPAGACACAGGCCACGGGTTAGAACATCACCCCTTC 1020
 Qy 1021 TPGGCCCTGAGGTGTATGTTAGCTGAGCTTGGAAACTCTTAATAATGGTATGCTAT 1080
 Db 1021 TPGGCCCTGAGGTGTATGTTAGCTGAGCTTGGAAACTCTTAATAATGGTATGCTAT 1080
 Qy 1081 TACACAACGTTTACATTGTAATGATTCAGAATTGAAACCAGNTGGGAGSST 1140
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 Qy 1141 ATTCGATGCTTATGAAACACTACAGTGTAGCTATGGAGGGGTCAAGTCCTGGT 1200
 Db 1141 ATTCGATGCTTATGAAACACTACAGTGTAGCTATGGAGGGGTCAAGTCCTGGT 1200
 Qy 1201 CTAAACCCCTGACATGTCCTGTGAGAACCTTGAATGAGCTATGCTATTC 1260
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 Qy 1321 AATAAGTCTTTTCTATGGAGGAGAACATTAGTGTATTATATATGCTA 1380
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 Qy 1441 AGTATTGATCAATATTAAATGTCCTACTGTGACATATTATGTTTAATG 1500
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 Qy 1501 TACAGATGTTACTGGTCACTTGTGATTCAGCTGCAAGTTGTTAATTTGCTAT 1560
 Db 1501 TACAGATGTTACTGGTCACTTGTGATTCAGCTGCAAGTTGTTAATTTGCTAT 1560
 Qy 1561 GCAGAACTGTTCTGGTACACAGATGTTGTTACTGTTACTGTTACTAATA 1620
 Db 1561 GCAGAACTGTTCTGGTACACAGATGTTGTTACTGTTACTAATA 1620

Qy 1621 GAGCTTCG 1630
 Db 1621 GAGCTTCG 1630

RESULT 7
 US-09-871-856-10
 Sequence 10, Application US/09871856
 Patent No. 6537763
 GENERAL INFORMATION:
 APPLICANT: Anderson, Dirk M.
 Galibert, Laurent
 Maraskovsky, Eugene
 TITLE OF INVENTION: Receptor Activator of NF-kappaB
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEES: Immunex Corporation, Law Department
 STREET: 51 University Street
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: Apple Power Macintosh
 OPERATING SYSTEM: Apple Operating System 7.5.5
 SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/871,856
 FILING DATE: 09/09/2001
 CLASIFICATION: <Unknown>
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/995,139
 FILING DATE: <Unknown>
 APPLICATION NUMBER: USN 08/813,509
 FILING DATE: 07 MARCH 1997
 APPLICATION NUMBER: USN 08/772,330
 FILING DATE: 23 DECEMBER 1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Perkins, Patricia Anne
 REFERENCE/DOCKET NUMBER: 34,693
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 587-0430
 TELEFAX: (206) 233-0644
 INFORMATION FOR SEQ ID NO: 10:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1630 base Pairs
 TYPE: nucleic acid
 STRANDBEHNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Mus musculus
 IMMEDIATE SOURCE:
 LIBRARY: <Unknown>
 CLONE: RANKL
 FEATURE:
 LOCATION: 3..884
 NAME/KEY: CDS
 SEQUENCE DESCRIPTION: SEQ ID NO: 10:

J.S.-09-871-856-10

Query Match 100.0%; Score 1630; DB 4; Length 1630;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1630; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCUGUGTCCCACAGGAGGTGGCTGCCACCCCGGCCTTGACGGCTGGGGAGGCGG 60
 1 CCUGUGTCCCACAGGAGGTGGCTGCCACCCCGGCCTTGACGGCTGGGGAGGCGG 60
 QY 51 CACCCGCGCCGCCCTCAATGGCTCTGGCTCTGGGCTGGGGAGGCGG 60
 QY 61 CACCCGCGCCGCCCTCAATGGCTCTGGCTCTGGGCTGGGGAGGCGG 120

QY 121 TCTGAGCATGCTCTGTTCTGACTTTCGAGSGCCAGTGGATAACAGATAATCAG 180
 Db 121 TCTGAGCATGCTCTGTTCTGACTTTCGAGSGCCAGTGGATAACAGATAATCAG 180
 QY 181 AACAGACACTCACAGCTGCTTTATGAACTCTGAGACTCCATGAAACCGAGATTGAGG 240
 Db 181 AAGACAGACACTCACAGCTGCTTTATGAACTCTGAGACTCCATGAAACCGAGATTGAGG 240
 QY 241 ACTCAGCTTGAGAGTGAAGACCACTACTCTGAGAGGAGCTGCACACATGTTGGGCCAAGCGCTCTCAGAGCT 300
 Db 241 ACTCAGCTTGAGAGTGAAGACCACTACTCTGAGAGGAGCTGCACACATGTTGGGCCAAGCGCTCTCAGAGCT 300
 QY 301 TTCAAGGGGCCGTCAGAGGAACCTGCACACATGTTGGGCCAAGCGCTCTCAGAGCT 360
 Db 301 TTCAAGGGGCCGTCAGAGGAACCTGCACACATGTTGGGCCAAGCGCTCTCAGAGCT 360
 QY 361 CTCCAGCTATGATGCGAACGCTCATGGTGGATGTTGGCTGGCCAGGGCAAGGGCTGGGCC 420
 Db 361 CTCCAGCTATGATGCGAACGCTCATGGTGGATGTTGGCTGGCCAGGGCAAGGGCTGGGCC 420
 QY 421 AGCCATTGACACCTCACCATCACTGCGCAGCATCCATGGCTCCATAAGTCA 480
 Db 421 AGCCATTGACACCTCACCATCACTGCGCAGCATCCATGGCTCCATAAGTCA 480
 QY 481 CTCTGTCTCTGTTGACCGATGAGGCTGGGAGGCTGAGCTGACATGTTAGCA 540
 Db 481 CTCTGTCTCTGTTGACCGATGAGGCTGGGAGGCTGAGCTGACATGTTAGCA 540
 QY 541 ACCGAAACTAAGGTTAACCAAGATGGCTCATGGCTTACCGTACGCCACATTCCTTC 600
 Db 541 ACCGAAACTAAGGTTAACCAAGATGGCTCATGGCTTACCGTACGCCACATTCCTTC 600
 QY 601 GGCACTGAAACATCGGAAGCTCTCAGAGTATCTCAGCTGAACTGAGTAAAGCA 660
 Db 601 GGCACTGAAACATCGGAAGCTCTCAGAGTATCTCAGCTGAACTGAGTAAAGCA 660
 QY 661 TTAACCAGCATCAAATCCAACTGAGCTGACATGAGCTTCATACGTGAAAGGAGGAGGACGAAA 720
 Db 661 TTAACCAGCATCAAATCCAACTGAGCTGACATGAGCTTCATACGTGAAAGGAGGAGGACGAAA 720
 QY 721 ACTGGTGGGCAATCTGAACTTCCACTTATCCATAATGTTGGGATTTTCAGC 780
 Db 721 ACTGGTGGGCAATCTGAACTTCCACTTATCCATAATGTTGGGATTTTCAGC 780
 QY 781 TCCGAGCTGGGAAGAAATTAGCATTCAGGTGTCACCCCTCCCTGGATCCGGATC 840
 Db 781 TCCGAGCTGGGAAGAAATTAGCATTCAGGTGTCACCCCTCCCTGGATCCGGATC 840
 QY 841 AAGATGGAGTACTTGGGCTTCAGTCAAGTTCAGGACATAGTGGACTCATTCGTG 900
 Db 841 AAGATGGAGTACTTGGGCTTCAGTCAAGTTCAGGACATAGTGGACTCATTCGTG 900
 QY 901 GAACATTAGATGGATCTAGGAAACTCTTAAATAATGAGATGCTAT 960
 Db 901 GAACATTAGATGGATCTAGGAAACTCTTAAATAATGAGATGCTAT 960
 QY 961 ACATGTGAGACTACTAGAGACATGCCAACGGTGTATGAAACCTACGCCCTCTC 1020
 Db 961 ACATGTGAGACTACTAGAGACATGCCAACGGTGTATGAAACCTACGCCCTCTC 1020
 QY 1021 TTGAGCTGAGTGGATGTTGATGAACTGCTGGCTGGGAGGAGGT 1140
 Db 1021 TTGAGCTGAGTGGATGTTGATGAACTGCTGGGAGGAGGT 1140
 QY 1081 TACACAACTGGTTTACATTTGTTGATGAACTGCTGGGAGGAGGT 1140
 Db 1081 TACACAACTGGTTTACATTTGTTGATGAACTGCTGGGAGGAGGT 1140
 QY 1141 ATTCGAGCTTATGAAACATCAGCTGAGCTAGTGAAGGGGTCACGCTCTGGGT 1200
 Db 1141 ATTCGAGCTTATGAAACATCAGCTGAGCTAGTGAAGGGGTCACGCTCTGGGT 1200
 QY 1201 CTACCCCTGGACATGGCCACTGAGAACCTGAGAACCTGAGAGGGTACAGCTCTGGGT 1260

STREET: 1840 Dehavenilland Drive
 CITY: Thousand Oaks
 STATE: California
 COUNTRY: USA
 ZIP: 91230-1789

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/842, 842
 FILING DATE:
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Winter, Robert B.
 REFERENCE/DOCKET NUMBER: A-451

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 2295 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

FEATURE:

LOCATION: 158..1105

MOLECULE TYPE: cDNA

NAME/KEY: CDS

LOCATION: 158..1105

US-08-842-842-5

Query Match 99 9%; Score 1628 4; DB 2; Length 2295;
 Best Local Similarity 99 9%; Pred. No. 0;
 Matches 1629; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Matches 1629; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCGGGTCCACAGGGGCCCTGCACCGCTCGGCGCGC 60
 Db 222 CGGGGTCCACAGGGGCCCTGCACCGCTCGGCGCGC 281

QY 61 CACGCCGCCCTCGCATGTCCTCGGCCCTCTGGGCTGGACTGGCCAGCTGG 120
 Db 282 CACGCCGCCCTCGCATGTCCTCGGCCCTCTGGGCTGGACTGGCCAGCTGG 341

QY 121 TCTGGACATGCTCTGTCGACTTCAGCATTCAGATTCAGCTTCAG 180
 Db 342 TCTGGACATGCTCTGTCGACTTCAGCATTCAGATTCAGCTTCAG 401

QY 181 AACAGACACTCACTGCTTTATAGAACCTGAGACATCCAGAAAGGAGATTTCAG 1380

Db 1381 AACGTATATTTCAGGTCAAATGTCAGTTTGTAATTATATTGTCAT 1440

QY 1381 AACGTATATTTCAGGTCAAATGTCAGTTTGTAATTATATTGTCAT 1440

Db 1441 AGTATTGATTCAAAATTAAATGTCIACOTTTGACATTTAATGTTAATG 1500

QY 1501 TACAGATGTTAAATTAATGTCIACOTTTGACATTTAATGTTAATG 1560

Db 1501 TACAGATGTTAAATTAATGTCIACOTTTGACATTTAATGTTAATG 1560

QY 1561 GCAGATCTGTTCTGGTGGACACATGTTTCTATATCTTAAATA 1620

Db 1561 GCAGATCTGTTCTGGTGGACACATGTTTCTATATCTTAAATA 1620

QY 1621 GAGTCCTGAG 1630

Db 1621 GAGTCCTGAG 1630

RESULT 9

US-08-842-842-6

Sequence 6, Application US/08842842

Patent No. 5843678

GENERAL INFORMATION:

APPLICANT: Boyle, William J.

TITLE OF INVENTION: OSTEOPROTEGERIN BINDING PROTEINS

NUMBER OF SEQUENCES: 7

CORRESPONDENCE ADDRESS:

ADDRESSEE: Amgen Inc.

QY 661 T^mAAACCCAGCATCAAAATCCCAAGTCTCATAACCGATGAAAGGGGAGCACAAA 720
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 Db 882 T^mAAACCCAGCATCAAAATCCCAAGTCTCATAACCGATGAAAGGGGAGCACAAA 941
 QY 721 ACTGGTGGCAGATTCTGAATTCACTTTAATCCATAAATGTGCGGATTTCAGC 780
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 Db 942 ACTGGTGGCAGATTCTGAATTCACTTTAATCCATAAATGTGCGGATTTCAGC 1001
 QY 781 TCCGAGGTGGTCAAAGAAATTAGCATCAGGTCAGGTCACCCCTCCGTGATCGGAC 840
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 Db 1002 TCCGAGGTGGTCAAAGAAATTAGCATCAGGTCAGGTCACCCCTCCGTGATCGGAC 1061
 QY 841 AAGATSGACGACTTTGGCTTCAGTCAGGAACTAGCTGAGACTGAGACTCATTCG 900
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 Db 1062 AAGATGGACGACTTTGGCTTCAGTCAGGAACTAGCTGAGACTCATTCG 1121
 QY 901 GACATTCAGCTGGTCTAGAGATTCATTCAGGTGTCACCCCTCCGTGATCGGAC 1061
 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
 Db 1122 GACATTCAGCTGGTCTAGAGATTCATTCAGGTGTCACCCCTCCGTGATCGGAC 960
 QY 961 ACATGGTGAAGCTACTAAAGAGACATGCGCACGGTGTGAAACTCTTAACAAATG 1181
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 Db 1182 ACATGGTGAAGCTACTAAAGAGACATGCGCACGGTGTGAAACTCTTAACAAATG 1020
 QY 1021 TTGAGCCTGTRACAGGTTGCTATAGTCAAGTCTGATGTTGATTCATGGAT 1080
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 Db 1242 TTGAGCCTGTRACAGGTTGCTATAGTCAAGTCTGATGTTGATTCATGGAT 1301
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 QY 1141 ATTCGGATGCTTATGAAAGACTACCTGAGCTATGCAAGGGGTCAAGTC 1200
 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
 Db 1362 ATTCGGATGCTTATGAAAGACTACCTGAGCTATGCAAGGGGTCAACTCTGGT 1421
 QY 1201 CTAAACCCCTGAGCATGTCACCTGAGACCTGAAATTAGGGATGCCATGTC 1260
 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
 Db 1422 CTAAACCCCTGAGCATGTCACCTGAGACCTGAAATTAGGGATGCCATGTC 1481
 QY 1261 AAGAAATATAGTGAGGGCTAACCTTGTGAGETATGGTACATGGCTGGACCTC 1320
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 Db 1482 AAGAAATATAGTGAGGGCTAACCTTGTGAGETATGGTACATGGCTGGACCTC 1541
 QY 1321 AATAAAGTCTTTCTAATGAGGAGAAATATGATTTATAATGCTA 1380
 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
 Db 1542 AAATAAGTCTTTCTAATGAGGAGAAATATGATTTATAATGCTA 1601
 QY 1381 AGTTTATTCAGGGTAATGTTCTGTCGAAGTTGTAATATGTTGCTA 1440
 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
 Db 1602 AGTTTATTCAGGGTAATGTTCTGTCGAAGTTGTAATATGTTGCTA 1661
 QY 1441 AGTATTGATCAAAATTTAAAGTCTCAGTTCATATAATGTTAATG 1500
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 Db 1662 AGTATTGATCAAAATTTAAAGTCTCAGTTCATATAATGTTAATG 1721
 QY 1501 TACAGATGTTAATGTTCTGTCGAAGTTGTAATATGTTAATG 1721
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 Db 1722 TACAGATGTTAATGTTCTGTCGAAGTTGTAATATGTTAATG 1560
 QY 1722 TACAGATGTTAATGTTCTGTCGAAGTTGTAATATGTTAATG 1781
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 QY 1561 GCAGATCTGTTGGTGGGACCATGAGTTTATCTTTAAATAA 1620
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 Db 1782 GCAGATCTGTTGGTGGGACCATGAGTTTATCTTTAAATAA 1841
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 QY 1621 GAGTCCTTCAG 1630
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 Db 1842 GAGTCCTTCAG 1851
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RESULT 11
 US 08-988-362-1
 Sequence 1, Application US/08899362
 ; Patent No. 624286

Db 549 CTCAGCTATGAGGGCTATGGTGGGCCACGAGCAAGCTGAGCC 608
 QY 421 ACGCATGACACCTACCACTAACCTAAGCTGCCACATCCCACCGGTCCATAAAGTC 480
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 Db 669 CTCGTGCTCTTGTTACCGTCAAGGTCGAGCTGGCCAGATCTACAGTAGTAAAGCA 728
 QY 541 AGGAAGAACTAAGGTTAACCAAGATGGCTCTTATACCGTACCCACATGCTTC 600
 Db 729 AGGAAAGACTTAAGGTTAACCAAGATGGCTCTTATACCGTACCCACATGCTTC 788
 QY 601 GCGCATGAAACATGGGAAGCGTACCTAGACATCTCAGTGGTGTGCG 650
 Db 789 GCGCATGAAACATGGGAAGCGTACCTAGACATCTCAGTGGTGTGCG 848
 QY 561 TAAACCCAGCTCAAATCCAAAGTCTCAATACCTGATGAAAGGAGGAGGAGAAA 720
 Db 849 TAAACCCAGCTCAAATCCAAAGTCTCAATACCTGATGAAAGGAGGAGGAGAAA 908
 QY 721 ACTGGTGGGCAATCTGAATTCCACTTTATCCATAATGTTGGGGATTTCAGC 780
 Db 909 ACTGGTGGGCAATCTGAATTCCACTTTATCCATAATGTTGGGGATTTCAGC 968
 QY 781 TCCGAGCTSGTGAAGAAATGCACTTCAGGTGTCACCCCTCTGCTGAAAGGAGGAGGAGAAA 840
 Db 969 TCGAGCTGGTGAAGAAATGCACTTCAGGTGTCACCCCTCTGCTGAAAGGAGGAGGAGAAA 1028
 QY 841 AAAGTGGGAGTACTTGGGCTTCAGGTTAGGACATAGCTGAGACTCATTCTG 900
 Db 1029 AAAGTGGGAGTACTTGGGCTTCAGGATAGCTGAGACTCATTCTG 1088
 QY 901 GACATTAGCTGGATGCTCTAGTTGGAACCTCTAAAAATGATGTTGTT 960
 Db 1089 GACATTAGCTGGATGCTCTAGTTGGAACCTCTAAAAATGATGTTGTT 904
 QY 951 ACAGTGTAGACTAAGAGCATGGGCCACGGGTGATGAAACTCACGCCCTCTC 1020
 Db 1149 ACAGTGTAGACTAAGAGCATGGGCCACGGGTGATGAAACTCACGCCCTCTC 1208
 QY 1021 TTGAGCTGTACAGTTGTTGAGACTCTTAAGAAATGATGTTGCT 1080
 Db 1209 TTGAGCTGTACAGTTGTTGAGACTCTTAAGAAATGATGTTGCT 1268
 QY 1081 TACACAAACGGTTTACAATTTTAATGATTCTT-AGATGAGGATGGAGG 1139
 Db 1269 TACACAAACGGTTTACAATTTTAATGATTCTTACAAGAATGAACTGGAGG 1328
 QY 1140 TATTCGAGCTGTGAAACTACAGTGCATGGAGGGTCACAGTCCTGG 1199
 Db 1329 TATTCGAGCTGTGAAACTACAGTGCATGGAGGGTCACAGTCCTGG 1388
 QY 1200 TCTACCCCTGGACATGCCACTGAGAACCTTGAAATTAGGGATGCCATGTCATTGC 1259
 Db 1389 TCTACCCCTGGACATGCCACTGAGAACCTTGAAATTAGGGATGCCATGTCATTGC 1448
 QY 1250 AAGAAATGATGAGTGTGAGGGTAACTCTCTTGATGTTACATGCCATGTCATTGC 1319
 Db 1449 AAAGAATGATGAGTGTGAGGGTAACTCTCTTGATGTTACATGCCATGTCATTGC 1508
 QY 1320 CAATAAATCTTCTTCTAATGAGGAGAAATAATGATTTATATAGTC 1379
 Db 1509 CAATAAATCTTCTTCTAATGAGGAGAAATAATGATTTATATAGTC 1568
 QY 1380 AAGGTATGATGAGTGTGAGGGTAACTCTCTTGATGTTACATGCCATGTCATTGC 1439
 Db 1569 AAGGTATGATGAGTGTGAGGGTAACTCTCTTGATGTTACATGCCATGTCATTGC 1658
 QY 1440 TAGATGATGAGTGTGAGGGTAACTCTCTTGATGTTACATGCCATGTCATTGC 1499

Db 1529 TAGATGATGTCATAATTAAATGTCACGTGTCACATTTAATGTTAAAT 1688
 QY 1500 GTACAGAGTATTAACGCGTCACTTGATTCCTGAGGACTCTGTAAGGG 1559
 Db 1689 GTACAGATGTTAACGCGTCACTTGATTCCTGAGGACTCTGTAAGGG 1748
 QY 1560 GGCGAATPTGTTCTGGACACTGTTGATTAATCCGTCGAGGTACTCSPGCTAAGGG 1619
 Db 1749 GGCAGAATPTGTTCTGGACACATGTCAGTGTAGTTTCTTAACTTAAT 1808
 QY 1620 AGATCTTCAG 1630
 Db 1809 AGATCTTCAG 1819

RESULT 12
 US-09-671-658A-1
 Sequence 1, Application US/09671658A
 Patient No. 652180

GENERAL INFORMATION:

APPLICANT: Gorman, Daniel M.
 TITLE OF INVENTION: Mammalian Cell Surface Antigens; Related
 NUMBER OF SEQUENCES: 2
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: DNAX Research Institute
 STREET: 901 California Avenue
 CITY: Palo Alto
 STATE: California
 COUNTRY: USA
 ZIP: 94304-1104

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/671-658A
 FILING DATE: 27-Sep-2000
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/989, 362
 FILING DATE: 12-DEC-1997
 APPLICATION NUMBER: US 60/032, 846
 FILING DATE: 13-DEC-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Ching, Edwina P.
 REGISTRATION NUMBER: 34, 090
 REFERENCE DOCKET NUMBER: DX0686

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 852-9196
 TELEFAX: (650) 496-1204

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
 LENGTH: 2191 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS
 LOCATION: 125..1072
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 1;
 ; US-09-671-658A-1

Query Match Similarity 99.1%; Score 1615.8; DB 4; Length 2191;
 Best Local Similarity 99.8%; Pred. No. 0; Matches 1628; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

QY 1 CCAGCGTCCACAGGAGGTGCTGCCACCCGGCGCTCTGCCACGGCTCGGGCCGC 60
 Db 189 CCAGCGTCCACAGGAGGTGCTGCCACCCGGCGCTCTGCCACGGCTCGGGCCGC 248

QY 61 CACCCGCGCCTCCCCCTCATGTCCTGSCCCTCTGGGGCTGGACTGGGCCAGTGG 120
 Db 249 CACCCCGCCCTCCCCCTCATGTCCTGSCCCTCTGGGGCTGGACTGGGCCAGTGG 308
 QY 121 TCTGCACCATGCTCTGTCTGTACTTTGAGGAGATGGACCTAACAGATACAG 180
 Db 309 TCTGCACCATGCTCTGTCTGTACTTTGAGGAGATGGACCTAACAGATACAG 368
 QY 181 AGACGCACTCACTCTTATAGATCCTGAGACTCCATGAACAGATTGGAG 240
 Db 369 AAGAGACGACTCACTCTTATAGATCCTGAGACTCCATGAACAGATTGGAG 428
 QY 241 ACTCGACTCTGGAGAGTGAGACACACTACCTGACTCTCGCAGAGATGAGC 300
 Db 429 ACTCGACTCTGGAGAGTGAGACACACTACCTGACTCTCGCAGAGATGAGC 488
 QY 301 TTCAAGGGCGCTCAGAAGAACTGACACATGGGGCACAGCGCTCTCAGAG 360
 Db 489 TTCAAGGGCGCTCAGAAGAACTGACACATGGGGCACAGCGCTCTCAGAG 548
 QY 361 CTCCAGCTATGAGGAGGCTCATGGTGGAGTGGCCAGGGAGGAAGCTGAGCC 420
 Db 549 CTCCAGCTATGAGGAGGCTCATGGTGGAGTGGCCAGGGAGGAAGCTGAGCC 488
 QY 421 AGCCATTCACACCTTACCATCATCTGGCAGCATCCACAGGGTCCATAAGTCA 480
 Db 509 AGCCATTCACACCTTACCATCATCTGGCAGCATCCACAGGGTCCATAAGTCA 668
 QY 481 CTCTGCTCTGGTACAGATGGCTGGCCAGATGCTCTGGCAGATGCTCTGGCAGATGCTGG 540
 Db 669 CTCTGCTCTGGTACAGATGGCTGGCAGATGCTCTGGCAGATGCTGG 728
 QY 541 ACGGAAGAACTAAGGGTAAACAGATGGCTCTATTAACCTGTACGCCAACATGGGTTC 600
 Db 729 ACGGAAGAACTAAGGGTAAACAGATGGCTCTATTAACCTGTACGCCAACATGGGTTC 788
 QY 601 GGCATCATGAAACATGGGAAGGTACACAGACTATCTCAGTGATGTTGCG 660
 Db 789 GGCATCATGAAACATGGGAAGGTACACAGACTATCTCAGTGATGTTGCG 848
 QY 661 TTAACACGAGTCATCAAATCCAAAGTCTCATAACCTGATGAAGGGAGGACGAAA 720
 Db 849 TTAACACGAGTCATCAAATCCAAAGTCTCATAACCTGATGAAGGGAGGACGAAA 908
 QY 721 ACTGGGGGGAAATCTGAATTCACCTTATTCATTAATCTGGGGATTTCAAGC 780
 Db 909 ACTGGGGGGAAATCTGAATTCACCTTATTCATTAATCTGGGGATTTCAAGC 780
 QY 781 TCGAACCTGGGAGAAATAGCATTCGGTCTCAACCTTCCCTGGGATTCGGATC 968
 Db 969 TCCGAGCTGGAGAAATAGCATTCGGTCTCAACCTTCCCTGGGATTCGGATC 840
 QY 841 AAGATGCGGAGTACTTGGGCTTCATAAGTCAAGGAGATAGCTGAGCTTG 900
 Db 1029 AAGATGCGGAGTACTTGGGCTTCATAAGTCAAGGAGATAGCTGAGCTTG 1088
 QY 901 GACATTACATGATGCTTAGTGTGAACTCTTAAAGATGATGTCAT 960
 Db 1089 GACATTACATGATGCTTAGTGTGAACTCTTAAAGATGATGTCAT 1148
 QY 961 ACATGCTAGACTACTAGAGACATGGCCACGGTATGAACTCACACCCCTCTC 1020
 Db 1149 ACATGCTAGACTACTAGAGACATGGCCACGGTATGAACTCACACCCCTCTC 1208
 QY 1021 TTGACCCCTACAGGTGTGTATGTAAGCATGGTATGTCATGGTATGTCAT 1080
 Db 1209 TTGACCCCTACAGGTGTGTATGTAAGCATGGTATGTCATGGTATGTCAT 1268
 QY 1081 TACACAGGTGTACAGGTGTGTATGTAAGCATGGTATGTCATGGTATGTCAT 1139
 Db 1269 TACACAGGTGTACAGGTGTGTATGTAAGCATGGTATGTCATGGTATGTCAT 1328
 QY 1140 TATTCGATGCTTATGAAACTTACACCTGAGCTATGAAAGGGTCACAGTCCTGG 1199
 Db 1329 TATTCGATGCTTATGAAACTTACACCTGAGCTATGAAAGGGTCACAGTCCTGG 1388
 QY 1200 TCTAACCCCTGGACATGGCACTGAGACACTGAAATTAAGGGATGCCCAGTCATTCGG 1259
 Db 1389 TCTAACCCCTGGACATGGCACTGAGACACTGAAATTAAGGGATGCCCAGTCATTCGG 1448
 QY 1260 AAGAAATGATAGCTGAGGGTAACTGTTGAGACTATGGCAGGATGAAACAGCT 1319
 Db 1449 AAGAAATGATAGCTGAGGGTAACTGTTGAGACTATGGCAGGATGAAACAGCT 1508
 QY 1320 CAATAAGTCTTCTTAATGAGGAGAAATATGATGTTATATATATGCT 1379
 Db 1509 CAATAAGTCTTCTTAATGAGGAGAAATATGATGTTATATATATGCT 1568
 QY 1380 AAAGTATTCGGTGTATGTTCTGTCAGAAGTTGTTAATTTTGTGCA 1439
 Db 1569 AAAGTATTCGGTGTATGTTCTGTCAGAAGTTGTTAATTTTGTGCA 1628
 QY 1440 TAGTTGTTAAATTTAAATGAGGAGAAATATGATGTTATATATGCT 1499
 Db 1629 TAGTTGTTAAATTTAAATGAGGAGAAATATGATGTTATATATGCT 1688
 QY 1500 GTACAGATGTTACTGGTACATGTTGTTCTGAGGGACTCTAGCTGAGG 1559
 Db 1689 GTACAGATGTTACTGGTACATGTTGTTCTGAGGGACTCTAGCTGAGG 1748
 QY 1560 GGGAAGAACTGTTCTGGTACATGTTGTTCTGAGGGACTCTAGCTGAGG 1619
 Db 1749 GGCAGAAACTGTTCTGGTACCATGTTGAGGAGAATGTTTAACTTAAT 1808
 QY 1620 AGGTCTTCAG 1630
 Db 1809 AGAGTCCTCAG 1819

RESULT 13
 US-09-52-521C-3
 ; Sequence 3, Application US/09052521C
 ; Patent No. 6316408
 ; GENERAL INFORMATION:
 ; APPLICANT: Boyle, William J.
 ; TITLE OF INVENTION: Osteoprotegerin Binding Proteins and Receptors
 ; FILE REFERENCE: A-451BR
 ; CURRENT APPLICATION NUMBER: US/09/052,521C
 ; CURRENT FILING DATE: 1998-03-30
 ; PRIOR APPLICATION NUMBER: 08/880,855
 ; PRIOR FILING DATE: 1997-06-23
 ; PRIOR APPLICATION NUMBER: 08/842,842
 ; PRIOR FILING DATE: 1997-04-16
 ; NUMBER OF SEQ ID NOS: 40
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO: 3
 ; LENGTH: 2271
 ; TYPE: DNA
 ; ORGANISM: Human
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (185)..(1135)
 ; US-09-052-521C-3

Query Match 57.6%; Score 939.6; DB 4; Length 2271;
 Best Local Similarity 78.1%; Pred. No. 5_6e-247;
 Matches 185; Conservative 0; Mismatches 314; Indels 47; Gaps 11;

QY	1187 CACAGTCTCGGGCTTAACCCCTGGAAATGTCGCCAATGAGAACCTGAAATTAGGGAT	1246
Db	1441 -----TTGGTCCCCTGTGTCATGTGCCCTCGCAGC-TGACTGGAGGGGT	1485
QY	1247 GCCATGTCATGGCAAAGAAATATAGCTGAAAGGGTAGCTTGTAAATGTTCATT	1306
Db	1486 GTCATCT AGCGCAATTGAGGAGTCACCTGAGGGCAATTCTTGTGATGGTACATC	1544
QY	1307 GCGCTGGGACCTGCAAAATAAGTCTTTCTTCTATGAGGAGAGAAATATGTATT	1366
Db	1545 ATGCCTGGAACTGCAAAATAAC--TTTCTCTAATGAGGAGAG-BAAATAATGATT	1600
QY	1367 TTAAAATAGTCCTAAAGTATATTCTAGGGTAATGTTCTGTCGAAGTTGTAAT	1426
Db	1501 TTATATAATATCTAAAGTATATTCTAGGTAAATGTTCTGTCGAAGTTGTAAT	1660
QY	1427 TATATCTGCTCATASGATTGATTCAAATATTAAATGTCCTCAGTGTGACATT	1486
Db	1661 TATATCTGCTCATASGATTGATTCAAATATTAAATGTCCTCAGTGTGACATT	1720
QY	1487 TATGTGTTAAATGTCAGATGTTACTGGTCACTTGTAATTCGCCCTG---AA	1541
Db	1721 TATGTGTTAAATGTCAGACATATTAACTGGTCACTTGTAATTCGCCCTGGAAA	1780
QY	1542 GGTACTCGTAGCTAAGGGGAGAGTACTTTCTGTCACCATGAGTATTCTT	1601
Db	1781 CTGTCGCTAAGGAGGGAAAAATGTTGTTCTTAATATCAATGCAGTATTTCTT	1840
QY	1602 TATCTTTAACTATAGTCCT 1627	
Db	1841 CGTTCTTTAACTATAGTCCT 1866	

TELEPHONE: (206)587-0430
 TELEFAX: (206)233-0644
 INFORMATION FOR SEQ ID NO: 12:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 954 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE: Homo sapiens
 IMMEDIATE SOURCE:
 LIBRARY:
 CLONE: hurankl (full length)
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..951
 US-98-996-139-12

Query Match Best Local Similarity 37.7%; Score 615; DB 3; Length 954;
 Matches 734; Conservative 0; Mismatches 150; Indels 9; Gaps 2;

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Qy      i CCGGGGTGCCCACAGGAGGRCGCGACACCCGGCCCTCTGACACGGTCCACCTTCGGGATTT 774
Db      782 CCAAGTATGGTGCGGATTCCATTCATTTCATAACGTTGGATTT 841
Qy      775 TCAACTCGAGCTGGTGAAGAATTAGCATCAGGRGTCACACCTCCCTGGGATC 834
Db      842 TTAACTTACGGTCTGGAGGAAATCAGCATCGGGCTCCACCCCTCTTACATGGATC 901
Qy      835 CGGTCAAGATGCCGACGACTTGGCTTCAACGTCAGCACAGATG 887
Db      902 CGGTCAAGATGCCGACATCTTGSCCTTAAGTTCGAGATATAGATGA 954

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RESULT 15
 US-08-995-659-12
 Sequence 12, Application US/08995659
 Patient No. 6242213
 GENERAL INFORMATION:
 APPLICANT: Galibert, Laurent
 APPLICANT: Maraskovsky, Eugene
 TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immunex Corporation, Law Department
 STREET: 51 University Street
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98101
 COMPUTER READABLE FORM:
 COMPUTER: Apple Power Macintosh
 OPERATING SYSTEM: Apple Operating System 7.5.5
 SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/995-659
 FILING DATE: 22 DECEMBER 1997
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: USSN 60/064,671
 FILING DATE: 14 OCTOBER 1997
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: USSN 08/813,509
 FILING DATE: 07 MARCH 1997
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: USSN 08/772,330
 FILING DATE: 23 DECEMBER 1996
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Perkins, Patricia Anne
 REGISTRATION NUMBER: 34,693
 REFERENCE/DOCKET NUMBER: 2052-A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)587-0430
 TELEFAX: (206)233-0644
 INFORMATION FOR SEQ ID NO: 12:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 954 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE: Homo sapiens
 IMMEDIATE SOURCE:
 LIBRARY:
 CLONE: hurankl (full length)
 FEATURE:

NAME/KEY: CDS
 LOCATION: 1..951
 US-08-995-659-12

Query Match 37.7%; Score 615; DB 3; Length 954;
 Rest Local Similarity 82.2%; Ped. No. 2, 1e-158;
 Matches 734; Conservative 0; Mismatches 150; Indels 9; Gaps 2;

Qy	1	CCGGCGTCCACAGGAGGTGGCTGCACCCGGCCTTCAGACGGCCTGGGCCGGC	60
Db	65	CCGGAGGCCACAGGAGGCCCTGACGCCCGC--GGCGCTTGCGGCCACCAGC	121
Qy	61	CACCGCGGCCGCCCGCTCCGCTCAGTGTCTTGSCCTCTGGAGCTGGACTGGGCCAGGTG	120
Db	122	CCCCGGGCCGCCCGCTCATGTTGGCTGGGCCCTGGGCCCTGGGCCAGGTG	181
Qy	121	TCTGCAAGCATCCCTCTCTGACTTGTACTTGGAGCCAGATGGATCTAACAGAATATCG	180
Db	182	TCTGCAAGCTGCCCTCTCTCTTAATTCTCAGAGCAGATGATCTAAATAGATATCG	241
Qy	181	AGACAGACACTCAGCTGTTTATAGATCTGGAGCTCATGAAACGGAGATGGCAG	240
Db	242	AGATGGCACCTCTACTGCATTATAGATTTGAGCTCATGAAATGGAGATTTCAAG	361
Qy	241	ACTGACTCTGGAGACTGAGACAC-----ACTACTGACTCTGCAAGGAGATGAAAC	294
Db	302	ACACAACTCTGAGACTCAAGATACAAATTAACCTGATTCTAGTGGAGATTAAC	301
Qy	295	AGGCCTTCAGGGCGCTGAGGAACTGCAACATGTGGGCCACACGGCTCT	354
Db	362	AGGCCTTCAGGAGCTGTCACAAGAAATTACACATTCGTTGATCACAGCACATCA	421
Qy	355	CAGGACTCTCAGTAGTGGAGGCTCTGGTGGAGATGGCCAGGGGAGGCTG	414
Db	422	GAGCAGAGAAAGCGATGGTGGATGGCTCATGGTTAGACTGGCAAGGGAGGCTG	481
Qy	415	AGCCAGGCTTACACCTTCACCATCAATGCTGCCAGCACCCATGGGTCCTA	474
Db	482	AAGCTCAGGCTTGTCTCACTTAATATGCTCACCGCACATCCATGGTCCATA	541
Qy	475	AGTCACTCTGTCCTCTGGTACACGATGAGCTGGCTSSGCCAGATCTAACATGAGCT	534
Db	542	AGTGAGTCGTGCTCTCTGTTGATCATGATCGGGTTGGCCAGATCCTCAACATGACTT	601
Qy	535	TAAGAACGGAAGAACTAAGGTTRACCAAGATGCTCTTATTAACCTGATGCCACATT	594
Db	602	TATCAATGGAAGAACTTAATGTTATCAGGATGCTTATTAACCTGATGCCACATT	661
Qy	595	GCTTTCGGCATCATGAAACATGGGAGCGTACTCAGACTCTCAGTGTATGGTT	654
Db	662	GCTTTCGACATCTGAGAACTTCTGGAGACTCTGACAGATCTAACATGAACTAAGGT	721
Qy	655	ATGTCGTTAAACGACATCAAAATCCAAAGTCTCATAACCTGATGAAAGGGAGCA	714
Db	722	ACGTCATAAAACACGCACTCAAAATCCCAAGTCTCATACCCGATGAAAGGGAGCA	781
Qy	715	CGAAAACATGGCGGCAATCTGAATCTCATTATCCATAATGTTGGGGATT	774
Db	782	CCAGTATGGTGGAGATCTGAACTTCATTAACCTGATGAAAGGGAGCA	841
Qy	775	TCAAGTCGAGCTGGTGGAGAAATGACCTTCAGGTGGCTCAAGTCAGGATAGACTGA	834
Db	842	TTAGTGTAGGCTGGAGGAGAAATGACATGAGCTCCACCCCTCCCTATGGATC	901
Qy	835	CGATCAAGATGGGACTACTTGGGCTTCAGTCAGGACATAGCTGA	887
Db	902	CGATCAAGATGGGACTACTTGGGCTTCAGTCAGGACATAGCTGA	954

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Job time : 1.11 secs

GenCore version 5.1.6
 Copyright (c) 1993 - 2003 Compugen Ltd.
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 Gapop 10.0 , Gapext 1.0
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Gencore version 5.1.6
 Copyright (c) 1993 - 2003 Compugen Ltd.
 OM nucleic - nucleic search, using sw model
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 (without alignments)
 9628.328 Million cell updates/sec
 Title: US-09-688-459-10
 Perfect score: 1630
 Sequence: 1 CGGGCGTCCCACAGGAGGT.....TRACTAATAGAGCTCAG 1630
 Scoring table: IDENTITY_NUC
 Gapop 10.0 , Gapext 1.0
 Searched: 1532420 seqs, 1213878141 residues
 Total number of hits satisfying chosen parameters: 3264840
 Minimum DB seq length: 0
 Maximum DB seq length: 200000000
 Post-processing: Minimum Match 0%
 Maximum Match 100%
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13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq: *
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16: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq: *
17: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq: *

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US-09-871-1856-10
Sequence 10, Application US/09871856
; Patent No. US2002081720A1
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
Galibert, Laurent
Marastovs'ky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA

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5	1588.2	97.4	2237	13 US-10-017-910-3 Sequence 3, App1
6	939.5	57.6	2271	14 US-218-547-21 Sequence 21, App1
7	928.6	57.0	2201	14 US-10-72-11-51 Sequence 51, App1
8	828.6	57.0	2201	14 US-10-277-328A-51 Sequence 51, App1
9	885.4	54.3	951	14 US-10-105-057-1 Sequence 1, App1
10	832.8	51.1	1823	13 US-10-017-910-1 Sequence 1, App1
11	832.8	51.1	1823	14 US-10-212-41-1 Sequence 1, App1
12	832.8	51.1	1823	14 US-10-222-328A-1 Sequence 1, App1
13	615	37.7	954	9 US-09-877-856-12 Sequence 12, App1
14	615	37.7	954	10 US-09-877-650-12 Sequence 12, App1
15	466	52.2	11	US-09-791-152A-75 Sequence 12, App1
16	97	6.0	1161	10 US-09-880-457-1 Sequence 1, App1

TELEFAX: (206)233-0644
 INFORMATION FOR SEQ ID NO: 10:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1630 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: mus musculus
 IMMEDIATE SOURCE:
 LIBRARY: <unknown>
 CLONE: RANKL
 FEATURE:
 LOCATION: 3..884
 SEQUENCE DESCRIPTION: SEQ ID NO: 10:
 US-09-871-856-10

Query Match 100.0% Score 1630; DB 9; Length 1630;
 325 Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 1630; Conservative 0;

Qy 1 CGCGCGGCCAACAGGGGCGCTGACCCCGCCTTCMGCACCGGRCGGCGCC 60
 1 CGCGCGGCCAACAGGGGCGCTGACCCCGCCTTCMGCACCGGRCGGCGCC 60
 61 CACCCCGGCCAACAGGGGCGCTGACCCCGCCTTCMGCACCGGRCGGCGCC 60
 61 CACCCCGGCCAACAGGGGCGCTGACCCCGCCTTCMGCACCGGRCGGCGCC 60
 121 TCTGCACTGCTGTTACTTGTGAGCTGACCCCGCCTTCMGCACCGGRCGGCGCC 60
 121 TCTGCACTGCTGTTACTTGTGAGCTGACCCCGCCTTCMGCACCGGRCGGCGCC 60
 181 AAGACAGCACTGCTGTTACTTGTGAGCTGACCCCGCCTTCMGCACCGGRCGGCGCC 120
 181 AAGACAGCACTGCTGTTACTTGTGAGCTGACCCCGCCTTCMGCACCGGRCGGCGCC 120
 181 AAGACAGCACTGCTGTTACTTGTGAGCTGACCCCGCCTTCMGCACCGGRCGGCGCC 120
 181 AAGACAGCACTGCTGTTACTTGTGAGCTGACCCCGCCTTCMGCACCGGRCGGCGCC 120
 Qy 241 ACTCGACTCTGGAGACTGAGACACACTACTCTGACTCCGAGAGGATGAAACGAGCT 240
 241 ACTCGACTCTGGAGACTGAGACACACTACTCTGACTCCGAGAGGATGAAACGAGCT 240
 Db 301 TTCAAGGGGGCGTCAGGAGAAGTCAACAGACATGTGGGCCACAGGGCTTCAGG 360
 301 TTCAAGGGGGCGTCAGGAGAAGTCAACAGACATGTGGGCCACAGGGCTTCAGG 360
 361 CTCCAGCTATGATGGAGGCTCATGTGGATGTCGGCCAGCAGCTGGGCCACAGGGCTTCAGG 360
 361 CTCCAGCTATGATGGAGGCTCATGTGGATGTCGGCCAGCAGCTGGGCCACAGGGCTTCAGG 360
 Db 361 CTCCAGCTATGATGGAGGCTCATGTGGATGTCGGCCAGCAGCTGGGCCACAGGGCTTCAGG 420
 361 CTCCAGCTATGATGGAGGCTCATGTGGATGTCGGCCAGCAGCTGGGCCACAGGGCTTCAGG 420
 Qy 421 AGCCATTGACACCTCACCATATGCGGCCAGCATCCATGGGTCAGATTAACCTCA 480
 421 AGCCATTGACACCTCACCATATGCGGCCAGCATCCATGGGTCAGATTAACCTCA 480
 Qy 481 CTCTGTCCTGTTGACCGATGAGCTGAGCTGGCCAGATCTTAATCTGACCCACATTGCTTC 540
 481 CTCTGTCCTGTTGACCGATGAGCTGAGCTGGCCAGATCTTAATCTGACCCACATTGCTTC 540
 541 AGGAAACTAACGGTTAACAGATGCTCTTACACTCTGACCCACATTGCTTC 600
 541 AGGAAACTAACGGTTAACAGATGCTCTTACACTCTGACCCACATTGCTTC 600
 Qy 601 GGCTCATGAAACATGGGAAGGTTACCTACAGACTATCTGACCTGATGGTAGTCG 660
 601 GGCTCATGAAACATGGGAAGGTTACCTACAGACTATCTGACCTGATGGTAGTCG 660
 Qy 661 TAAACACGACAAATCCCAGCTCTAACCTGATGAGAGGGGACGAAA 720
 661 TAAACACGACAAATCCCAGCTCTAACCTGATGAGAGGGGACGAAA 720

Db 721 ACTGGCTGGGAATTCTGATTCTTCACTTTATCCATATGTTGGGGATTTCAGC 780
 721 ACTGGCTGGCAATTCTGATTCTTCACTTTATCCATATGTTGGGGATTTCAGC 780
 781 TCCGAGCTGTGAAGAAATTAGCTTCAGTGTGGCTGCAACCCCTCCCGCTGGATCCGATC 840
 781 TCCGAGCTGTGAAGAAATTAGCTTCAGTGTGGCTGCAACCCCTCCCGCTGGATCCGATC 840
 Qy 841 AAGATGCGAGCTTGGGGCTTCAGGACTAGTGAGCTGAGCTCATTTGTTG 900
 841 AAGATGCGAGCTTGGGGCTTCAGGACTAGTGAGCTGAGCTCATTTGTTG 900
 Db 901 GAACATTACATSGATGCTCATGATGTTGAAACTCTTAAATGGATGATGCT 960
 901 GAACATTACATSGATGCTCATGATGTTGAAACTCTTAAATGGATGATGCT 960
 Qy 961 ACATGTGTAAGACTACTAAGAGACATGCCACGGTGTAGAAGACTCACCCCTCTC 1020
 961 ACATGTGTAAGACTACTAAGAGACATGCCACGGTGTAGAAGACTCACCCCTCTC 1020
 Db 1021 TTGAGCCCTGACAGTGTGATATGTAAGGATGCTTAACAGATATCAG 1080
 1021 TTGAGCCCTGACAGTGTGATATGTAACGCCCCAGGGTGTAGATCATGGT 1080
 Qy 1081 TACAAAGGGTTACAAATTGTAATGTAATGTTCTAGAATGAACTGACAGATGGGAGGT 1140
 1081 TACAAAGGGTTACAAATTGTAATGTAATGTTCTAGAATGAACTGACAGATGGGAGGT 1140
 Db 1141 ATTCGGATGCTTACAAATTGTAATGTAATGTTCTAGAATGAACTGACAGATGGGAGGT 1200
 1141 ATTCGGATGCTTACAAATTGTAATGTAATGTTCTAGAATGAACTGACAGATGGGAGGT 1200
 Db 1201 CTAACCCCTGGACATGTCGCACTGACCTGCAATGCTGAGCTGGACATGCTGCA 1260
 1201 CTAACCCCTGGACATGTCGCACTGACCTGCAATGCTGAGCTGGACATGCTGCA 1260
 Qy 1260 1261 AAGAAATGATACTGTAAGGTTAAGGTTGATTGTTGATTGTTGACATTTGGCCGGACCC 1320
 1261 AAGAAATGATACTGTAAGGTTAAGGTTGATTGTTGATTGTTGACATTTGGCCGGACCC 1320
 Db 1320 1321 AATAAGCTCTTTTCTATGAGGAGACAAATATATGTTTATATGCTA 1380
 1321 AATAAGCTCTTTTCTATGAGGAGACAAATATATGTTTATATGCTA 1380
 Qy 1380 1381 AAGTTATTCAGGTTAATGTTGATGTTCTGCAAGTTGTTATATGCTA 1440
 1381 AAGTTATTCAGGTTAATGTTCTGCAAGTTGTTATATGCTA 1440
 Db 1440 1441 AGTATTGATCAAATATTAAATGTCACGTTGACATTTTATGTTTAATG 1500
 1441 AGTATTGATCAAATATTAAATGTCACGTTGACATTTTATGTTTAATG 1500
 Db 1500 1501 TACAGTGTATTAACTGGGCACCTGTCATGCCCTGAGSTACTCTGTCATAAGGG 1560
 1501 TACAGTGTATTAACTGGGCACCTGTCATGCCCTGAGSTACTCTGTCATAAGGG 1560
 Qy 1560 1561 GCAGAACTGTTGGGACCATGAGTTGTTATCTTATTCCTTACTRATA 1620
 1561 GCAGAACTGTTGGGACCATGAGTTGTTATCTTATTCCTTACTRATA 1620
 Db 1620 1621 GAGTTCTGAG 1630
 1621 GAGTTCTGAG 1630

Db 1630

RESULT 2

US-09-877-650-10

; Sequence 10 Application US/09877650

; Patent No. US2002016117A1

; GENERAL INFORMATION:

; APPLICANT: Anderson, Dirk M.

; Maraskovsky, Eugene

TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
 NUMBER OF SEQUNENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ImmuneX Corporation, Law Department
 STREET: 51 University Street
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: Apple Power Macintosh
 OPERATING SYSTEM: Apple Operating System 7.5.5
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/877,650
 FILING DATE: 08-JUN-2001
 CLASSIFICATION: <unknown>
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/995,659
 FILING DATE: 1997-12-22
 APPLICATION NUMBER: USN 08/813,509
 FILING DATE: 07 MARCH 1997
 APPLICATION NUMBER: USEN 08/772,330
 FILING DATE: 23 DECEMBER 1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Perkins, Patricia Anne
 REGISTRATION NUMBER: 34,693
 REFERENCE/DOCKET NUMBER: 2052-A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)231-0644
 INFORMATION FOR SEQ ID NO: 10:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1630 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 IMMEDIATE SOURCE: *Mus musculus*
 LIBRARY: <Unknown>
 CLONE: RANKL
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 3..884
 ;
 SEQUENCE DESCRIPTION: SEQ ID NO: 10:
 US-09-877-650-10

Query Match Best Local Similarity: 100.0%; Score: 1630; DB: 10; Length: 1630; Matches: 1630; Conservative: 0; Mismatches: 0; Indels: 0; Gaps: 0;

QY 1 CGGGGTCCACAGGAGGTCCTGCACCGGCTCGGCCGCGCC 60
 DB 1 CGGGGTCCACAGGAGGTCCTGCACCGGCTCGGCCGCGCC 60
 QY 61 CACCGCCGCTCCGCGCTCAGTTCGCTCGGCCGCGCC 60
 DB 61 CACCGCCGCTCCGCGCTCAGTTCGCTCGGCCGCGCC 60
 QY 121 TCTGCAAGATGCTGCTGACTTTCGAGCGAGATGGATCTACAGAATATC 180
 DB 121 TCTGCAAGATGCTGCTGACTTTCGAGCGAGATGGATCTACAGAATATC 180
 QY 181 AACACAGCACTACTGTTATAGATCTGAGACTCCTGAAACAGAGATTGAG 240
 DB 181 AACACAGCACTACTGTTATAGATCTGAGACTCCTGAAACAGAGATTGAG 240
 QY 241 ACTGACTCTGGAGAGACACTACCTGACTCTGCAGGAGATGAACAGACCT 300

Db 241 ACTGACTCTGGAGAGACACTACCTGACTCTGCAGGAGATGAACAGACCT 300
 QY 301 TTCAAGGGGGCTGCAGAACCTCACACACATGGGGCACAGGCCCTTCAGGG 360
 Db 301 TTCAAGGGGGCTGCAGAACCTCACACACATGGGGCACAGGCCCTTCAGGG 360
 QY 361 CTACACCTATGAGGGCTCATGGTGGATGAGGGCCAGGGCAGCCCTCAGGG 420
 Db 361 CTACACCTATGAGGGCTCATGGTGGATGAGGGCCAGGGCAGCCCTCAGGG 420
 QY 481 CTCGTCCTCTGTTGACCGATGAGCTGGCCAGATCTACATGAGTTAGCA 540
 Db 481 CTCGTCCTCTGTTGACCGATGAGCTGGCCAGATCTACATGAGTTAGCA 540
 QY 541 ACGGAAACTAAGGTTACCAAGATGAGCTGGCTTCAATTACCTGAGCCACATTTGTT 600
 Db 541 ACGGAAACTAAGGTTACCAAGATGAGCTGGCTTCAATTACCTGAGCCACATTTGTT 600
 QY 601 GGCACTCATGAAACTCGGAAGGCTTACCTACAGCTACTCTGAGTGGTGTAGTC 660
 Db 601 GGCACTCATGAAACTCGGAAGGCTTACCTACAGCTACTCTGAGTGGTGTAGTC 660
 QY 661 TAAACACGATCAAATCCAGTCATAACCTGATGAAAGGGAGGGAGCAGAAA 720
 Db 661 TAAACACGATCAAATCCAGTCATAACCTGATGAAAGGGAGGGAGCAGAAA 720
 QY 721 ACTGTCGGCAATTCTGAATTCCACGTTCTCATACCTGATGAAAGGGAGCAGAAA 780
 Db 721 ACTGTCGGCAATTCTGAATTCCACGTTCTCATACCTGATGAAAGGGAGCAGAAA 780
 QY 781 TCCGAGCTGGTGAAGATTACATCAGGGTCCACCCCTCCCTGCTGATCGGATC 840
 Db 781 TCCGAGCTGGTGAAGATTACATCAGGGTCCACCCCTCCCTGCTGATCGGATC 840
 QY 841 AAGATGGGACGTAATTGGGCTTCAACTTATCCAAATGTTGGGATTTCAGG 900
 Db 841 AAGATGGGACGTAATTGGGCTTCAACTTATCCAAATGTTGGGATTTCAGG 900
 QY 901 GAACTATAGCATGGTGCTTGAAGATTGTTGAACACTCTAAARATGGATGTCAT 960
 Db 901 GAACTATAGCATGGTGCTTGAAGATTGTTGAACACTCTAAARATGGATGTCAT 960
 QY 961 ACATGTTAAGACTACTAAGAGACTGGCCACGGTGTATGAAACTCACAGCCCTCTC 1020
 Db 961 ACATGTTAAGACTACTAAGAGACTGGCCACGGTGTATGAAACTCACAGCCCTCTC 1020
 QY 1021 TTGACCTCTACAGGTGTTGTAAGTCCTACAGTGTGTTGATTCATGTTGAT 1080
 Db 1021 TTGACCTCTACAGGTGTTGTAAGTCCTACAGTGTGTTGATTCATGTTGAT 1080
 QY 1081 TACACAGGTGTTACAGTGTGTTGATTCATGTTGATTCATGTTGATTCATGTTGAT 1140
 Db 1081 TACACAGGTGTTACAGTGTGTTGATTCATGTTGATTCATGTTGATTCATGTTGAT 1140
 QY 1141 ATTCGATGTTATGAAACATACCTGAGCTTGAAGGGGTACAGCTCTGGT 1200
 Db 1141 ATTCGATGTTATGAAACATACCTGAGCTTGAAGGGGTACAGCTCTGGT 1200
 QY 1201 CTAAACCCCTGGACATGTCGACTCTGAGACCTGTTGAATTAAGGGATGCCATGTCATGCA 1260
 Db 1201 CTAAACCCCTGGACATGTCGACTCTGAGACCTGTTGAATTAAGGGATGCCATGTCATGCA 1260
 QY 1261 AAGAAATGATGTTGAGGGTTAGTCTTGTGATGTTACATGTCGAGGGCTGCAGCTGC 1320
 Db 1261 AAGAAATGATGTTGAGGGTTAGTCTTGTGATGTTACATGTCGAGGGCTGCAGCTGC 1320
 QY 1321 AATAATGTTCTAATGAGGAGAGAAATATGTTATATGTTATATAATGTCGA 1380

Db 1321 AATATAGTCTTTCTAATGAGGAGAAAATATGATTTATATGCTA 1380 Qy
 1381 AAGTATATTTCAGGTAAATTCAGTCTGCAGTTTGTAATTATATGGCTA 1440 Db
 1381 AGTATATTCAGGTAAATTCAGTCTGCAGTTTGTAATTATGGCTA 1440 Qy
 1441 AGTATTTGACTCAAAATTAATAATGCTCACTGTGACIATTTATGTTAATG 1500 Db
 1441 AGTATTTGACTCAAAATTAATAATGCTCACTGTGACIATTTATGTTAATG 1500 Qy
 1501 TACAGATGTTAACTGGTCACTTGTAAATCCCTGAAGTACTCGTAGAAGGG 1560 Db
 1501 TACAGATGTTAACTGGTCACTTGTAAATCCCTGAAGTACTCGTAGAAGGG 1560 Qy
 1561 CGAGATCTGTTCTGGGACCACTAGTGTATTCCTTATCCTTAACTTATA 1620 Db
 1561 CGAGATCTGTTCTGGGACCACTAGTGTATTCCTTAACTTATA 1620 Qy
 1621 GAGCTTCAG 1630 Db
 1621 GAGCTTCAG 1630
 RESULT? :
 US-09-079-569-6
 Sequence 5, Application US/09079569
 GENERAL INFORMATION:
 APPLICANT: Boyle, William J.
 TITLE OF INVENTION: OSTEOPROTEGERIN BINDING PROTEINS
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Angen Inc.
 STREET: 1840 Behavilland Drive
 CITY: Thousand Oaks
 STATE: California
 COUNTRY: USA
 ZIP: 91230-1789
 COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/079_569
 FILING DATE:
 CLASSIFICATION:
 PR-OR APPLICATION DATA:
 APPLICATION NUMBER: 08/842, 842
 ATTORNEY/AGENT INFORMATION:
 NAME: Winter, Robert B.
 REFERENCE/DOCKET NUMBER: A-451
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2395 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 158..1105
 US-09-079-569-6
 Query Match 99.9%; Score 1628; DB 11; Length 2295;
 Best Local Similarity 99.9%; Pred. No. 0;
 Natches 1629; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 CCGGGTCCACAGGGTCCGACCCGGCTCGACGGCTCGACGGCTCGACGGCC 60 Db
 222 CGGGTCCACAGGGTCCGACCCGGCTCGACGGCTCGACGGCTCGACGGCC 281 Qy
 61 CACGCCGCCTCCGCCTCATGCCCTCTGGGCTGGACTGGCCAGTGG 120 Qy
 282 CACCGCCGCCTCCGGCTCATGCCCTCTGGGCTGGACTGGCCAGTGG 341 Db
 121 TCTGAGCTCGCTGTCTGACTTTGAGCTTGTAGATCTTGTGAT 180 Qy
 342 TCTGAGCTCGCTGTCTGACTTTGAGCTTGTAGATCTTGTGAT 180 Qy
 181 AAGACAGCTACTGCTTTATAGACATCTGAGACCCAGAAACGAGATTCAGG 240 Db
 402 AAGACAGCTACTGCTTTATAGACATCTGAGACCTCCATGAAACGAGTTCAGG 461 Qy
 241 ACTGACTCTGGACAGTGAAGACACTACCGACTGACTCTGGAGCTTCAGG 300 Db
 462 ACTGACTCTGGACAGTGAAGACACTACCGACTGACTCTGGAGCTTCAGG 521 Qy
 301 TTAGGGGGCGAGAGGAACTGCAACATGGGGCACAGCGTTCTAGGAG 360 Db
 522 TTAGGGGGCGAGAGGAACTGCAACATGGGGCACAGCGTTCTAGGAG 581 Qy
 361 CTCCAGCTATGAGGCTATGGTGATGTCGCCAGGAGCAAGCTGAGGCC 420 Db
 582 CTCCAGCTATGAGGCTATGGTGATGTCGCCAGGAGCAAGCTGAGGCC 641 Qy
 421 AGCCATTGACACTCACCATGCTTCCAGATCCATCGGTTCATAGTC 480 Db
 642 AGCCATTGACACTCACCATGCTTCCAGATCCATCGGTTCATAGTC 701 Qy
 481 CTCGTCCTCTGGTACCACTGAGCTGCTAACATGGTGAAGCTGAG 540 Db
 702 CTCGTCCTCTGGTACCACTGAGCTGCTAACATGGTGAAGCTGAG 761 Qy
 541 AGGAAACTAAGGTTACCAAGATGGCTATGGTGATGTCGCCAGGAGCAAGCTGAGGCC 600 Db
 762 AGGAAACTAAGGTTACCAAGATGGCTATGGTGATGTCGCCAGGAGCAAGCTGAGGCC 821 Qy
 601 GCATCATGAAACATGGGAGGTAACCTACATGGGAGGTAACATGGTGAAGCTGAG 941 Db
 822 GCATCATGAAACATGGGAGGTAACCTACATGGGAGGTAACATGGTGAAGCTGAG 761 Qy
 651 TAAACACGACATCAAATCCAAGTTCTACAACTGTAAGGAGGAGCAGAAA 720 Db
 882 TAAACACGACATCAAATCCAAGTTCTACAACTGTAAGGAGGAGCAGAAA 941 Qy
 721 ACTGGGGCAATTCTGAAATTCACTTTATTCATAATGTTGGGATTTTCAGC 780 Db
 942 ACTGGGGCAATTCTGAAATTCACTTTATTCATAATGTTGGGATTTTCAGC 1001 Qy
 781 TCGAGCTGGAAATAGACAGTCAGTGTGCTCAACCCCTCCCTGATCCGATC 840 Db
 1002 TCGAGCTGGAAATAGACAGTCAGTGTGCTCAACCCCTCCCTGATCCGATC 1061 Qy
 841 AAGATGGGCAATTCTGAAATTCACTTTATTCATAATGTTGGGATTTTCAGC 900 Db
 1062 AAGATGGGCAATTCTGAAATTCACTTTATTCATAATGTTGGGATTTTCAGC 1121 Qy
 901 GAACCTTACATGAGAAATTAGATCTGAGCTTAAATGGTATGTCAT 960 Db
 1122 GAACCTTACATGAGCTAGATGTTGAGACTCTAACATGGTATGTCAT 1181 Qy
 961 ACAGCTGAGACTACTAGAGACATGCCACGGGTATCAAACCTCACGCCCTC 1020 Db
 1182 ACAGCTGAGACTACTAGAGACATGCCACGGGTATCAAACCTCACGCCCTC 1241 Qy
 1021 TTGGCCCTGACAGGGTGTGATATGAAAGCTCATAGGGTGTAGATCTGGAT 1080 Db
 1242 TTGGCCCTGACAGGGTGTGATATGAAAGCTCATAGGGTGTAGATCTGGAT 1301 Qy
 1081 TACACAAGGGTTACATTTGTAATGATTCAGTGTGAGCTTAAATGGTATGTCAT 1140 Db
 1302 TACACAAGGGTTACATTTGTAATGATTCAGTGTGAGCTTAAATGGTATGTCAT 1361 Qy
 1141 ATTCGATGCTPATGAAAAACTTACAGTGTGCTATGGAGGGTACAGTCTGGT 1200

TELECOMMUNICATION INFORMATION

TELECOMMUNICATION INFORMATION:
TELEPHONE: (650)852-9196
TELEFAX: (650)496-1044
INFORMATION FOR SEQ ID NO.: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2191 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 125..1072
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
S-10-326-052-1

Query Match 99.1%; Score 1615; DB 12; Length 2191;
 Best Local Similarity 99.8%; Pred. No. 0; Mismatches 0; Indels 1; Gaps 1;
 Matches 1628; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

QY	1441	ACGATTTGATTCAAAATTAAAGTGTCACTTGATTAAGTTAATGTCGCTAT	1661
Db	1662	AGTATGTCGATCAAATTAATGTCGATTAAGTTAATGTCGCTAT	1500
QY	1501	TACAGAAGTATTTAATGGGACTTGATGTAATCCCTGAGGTTGGGG	1721
Db	1722	TACAGAAGTATTTAATGGGACTTGATGTAATCCCTGAGGTTGGGG	1560
QY	1561	GCAGATCTGTTCTGGTACACTTGATGTAATCCCTGAGGTTGGGG	1781
Db	1782	GCAGATCTGTTCTGGTACACTTGATGTAATCCCTGAGGTTGGGG	1620
QY	1621	GAGTCAGTCAG 1630	1841
Db	1842	GAGTCAGTCAG 1851	1841
RESULT 4			
US-10-326-052-1			
Sequence 1, Application US10326052			
Publication No. US20030144480A1			
GENERAL INFORMATION:			
APPLICANT: Gorman, Daniel M.			
TITLE OF INVENTION: Mammalian Cell Surface Antigens; Related			
NUMBER OF SEQUENCES: 2			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: DXAX Research Institute			
STREET: 901 California Avenue			
CITY: Palo Alto			
STATE: California			
COUNTRY: USA			
ZIP: 94304-1104			
COMPUTER READABLE FORM:			
MEDIUM TYPE: floppy disk			
COMPUTER: IBM PC compatible			
OPERATING SYSTEM: PC-DOS/MS-DOS			
SOFTWARE: Patent Release #1.0, version #1.30			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/10/326,052			
FILING DATE: 22-Dec-2002			
CLASSIFICATION: <Unknown>			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: US/09/671,658A			
FILING DATE: 27-Sep-2000			
APPLICATION NUMBER: US/08/989,362			
FILING DATE: 12-Dec-1997			
APPLICATION NUMBER: US/60/032,846			
FILING DATE: 13-Dec-1996			
ATTORNEY/AGENT INFORMATION:			
NAME: Ching, Edwin P.			
REGISTRATION NUMBER: 34,090			
REFERENCE/DOCKET NUMBER: DK686			
QY	189	CCCGCGTCCCACAGCGAGGTTGGTACCTGACCCGGCGCCTTCGACGGGTCGGCGCC	60
Db	61	CACCGCGCCGCCGCTCCATGTCCTGCCCCCTGGGACTGGCCAGGTG	248
QY	249	CACCGCGCCGCCGCTCCGCTCCATGTCCTGCCCCCTGGGACTGGCCAGGTG	120
Db	121	TGCGCATCGTCGTCGTCGTCGTCGAGTGTGAGATCTCTGAGCTGGAGGTGG 308	308
QY	309	TCTGCACATGCCCTGTTCTGAGTGTGAGTGTGAGATCTCTGAGCTGG 180	368
Db	181	AAGACGACACTCACGCTTATAGATGATCCATGAAACCGAGATGGAGG	548
Db	369	ANGACGACACTCACGCTTATAGATGATCTGAGACTCCATGAAACCGAGGTTGGAGG	240
QY	241	ACTCGACTCTGGAGGTGAGGACACTACCTGACTCTGCTCTGAGGATGAAACACCT	300
Db	429	ACTCGACTCTGGAGGTGAGGACACTACCTGACTCTGCTCTGAGGATGAAACACCT	488
QY	301	TTCAGGGCGCTGAGAGGAGTGCACACAGTGTGGGCCACAGCGCTCTCAGAG 489	360
Db	489	TTCAGGGCGCTGAGAGGAGTGCACACAGTGTGGGCCACAGCGCTCTCAGAG 549	360
QY	361	CTCGAGCTATGATGAGAACGCTCATGGTGTGAGTGTGGGCCACAGCGCTCTCAGAG 420	420
Db	549	CTCGAGCTATGATGAGAACGCTCATGGTGTGAGTGTGGGCCACAGCGCTCTCAGAG 608	420
QY	421	AGCCATTGCCACACCATGATGTCGAGCATCCATCGGTTCCATAAAGTC	480
Db	609	AGCCATTGCCACACCTGACCATGATGTCGAGCATCCATCGGTTCCATAAAGTC	668
QY	481	CTCTGCTCTCTGTTGACGATGACGATGTCGAGCTGGCCAGATCTCATGAGTTRAGCA	540
Db	669	CTCTGCTCTCTGTTGACGATGTCGAGCTGGCCAGATCTCATGAGTTRAGCA	728
QY	541	ACCGAAACTAAGGTTAACCAAGATGGCTCTATTAACCTGACCCAAACATTGCTTC	600
Db	729	ACGGAAACTAAGGTTAACCAAGATGGCTCTATTAACCTGACCCAAACATTGCTTC	728
QY	601	GCGCATGAAACATGGGAGCAGCTACAGACTATCTCAGCTGATGTTATGTCG	660
Db	789	GCGCATGAAACATGGGAGCAGCTACAGACTATCTCAGCTGATGTTATGTCG	848
QY	661	TAAACGACATCAAATCCAACTCTCTACATAACCTGATGAAAGGAGGAGCAGAAA	720
Db	849	TAAACGACATCAAATCCAACTCTCTACATAACCTGATGAAAGGAGGAGCAGAAA	968
QY	721	ACTGGGGCAACTCTGAATCCACTTTATTCATAATGTTGGGGATTTCAGC	780
Db	909	ACTGGGGCAACTCTGAATCCACTTTATTCATAATGTTGGGGATTTCAGC	968

969 TCCGAGCGCTGTGAGAAATTACATCAGGOTCCACACCTCTGCTGGATCCGGATC 1028
 841 AGATGGCGACTTGGGCCTTCAGGATGAGCTGAGCTCATTCG 900
 1029 AGATGGCGACTTGGGCCTTCAGGATGAGCTGAGCTCATTCG 1088
 901 GAACTTACGATGGATGCCATGATGTTGGAACCTCTTA 960
 1089 GAACTTACGATGGATGCCATGATGTTGGAACCTCTTA 1148
 QY 961 AGATGTTAAGACTTAAGAGACAVGGGCCACSGPTGATGAACTCACAGCCCTCTC 1020
 1149 ACATGTTAAGACTTAAGAGACAVGGGCCACSGPTGATGAACTCACAGCCCTCTC 1208
 1021 TTGAGCTGTGAGGTGTTGATAGTAAGTCCTAGGTGATGTTGATGCTAT 1080
 1269 TACACACGGTTTACAATTGTTAGATGTTGATGTTGAGATGGAGG 1328
 QY 1140 TATTCGATGTTAGAAACCTTACCTGAGTATGAACTTACGTGAGCTATGAAAGGGTCAACAGTCCTCGG 1199
 1329 TATTCGATGTTAGAAACCTTACCTGAGTATGAAAGGGTCAACAGTCCTCGG 1388
 1200 TCTAACCCCGGACTATGCCACGAGAAGCTGAAATTAGGGATGCCACGTTGC 1259
 QY 1389 TCTAACCCCGGACTATGCCACGAGAAGCTGAAATTAGGGATGCCACGTTGC 1448
 QY 1260 AAAGAAATGATACTGAGGGTAAGTCTTGTAAAGTCTTGTACATGGCGGGACCTG 1319
 1449 AAAGAAATGATACTGAGGGTAAGTCTTGTACATGGCGGGACCTG 1508
 QY 1320 CAATAAAGCTTTCATAATGAGGAGAAAATATATATTTATTTATAGCT 1379
 1509 CAATAAAGCTTTCATAATGAGGAGAAAATATATTTATTTATAGCT 1568
 QY 1380 AAGTATATTTCAGTGAACTGTTCTGCAAGTTGTAATTTGGCTA 1439
 QY 1569 AAGTATATTTCAGTGAACTGTTCTGCAAGTTGTAATTTGGCTA 1628
 QY 1440 TACTTTGATTCAAATATTAAAGTCTCACTGTTGACATATTAAATTTAAT 1499
 Db 1629 TACTTTGATTCAAATATTAAAGTCTCACTGTTGACATATTAAATTTAAT 1688
 QY 1500 GTCAGATGTTAACTGGGACTTGTATCCCTGAGGACTCTAGTAAGG 1559
 Db 1689 GTCAGATGTTAACTGGGACTTGTATCCCTGAGGACTCTAGTAAGG 1748
 QY 1560 GCGAGATACTGTTGGGACCACTGTTGAGGACTCTAGTAAGG 1748
 Db 1749 GCGAGATACTGTTGGGACCACTGTTGAGGACTCTAGTAAGG 1619
 QY 1620 AGAGTCCTCAG 1630
 Db 1809 AGAGTCCTCAG 1819

RESULT 5 US-10-017-910-3
 Sequence 3, Application US/10017910
 Publication No. US200201599701
 GENERAL INFORMATION:
 APPLICANT: Choi, Yongwon
 Wong, Brian
 Josien, Regis
 Steinman, Ralph

TITLE OF INVENTION: A PROTEIN BELONGING TO THE TNF SUPERFAMILY INVOLVED IN SIGNAL TRANSDUCTION, NUCLEIC ACIDS ENCODING SAME
 NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Klauber & Jackson
 STREET: 411 Hackensack Avenue, 4th Floor
 CITY: Hackensack
 STATE: New Jersey
 COUNTRY: USA
 ZIP: 07601

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/017,910
 FILING DATE: 14-Dec-2001
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 09/447,035
 FILING DATE: 1999-11-22

ATTORNEY/AGENT INFORMATION:
 NAME: Jackson Esq., David A.
 REGISTRATION NUMBER: 26,442
 RUE NUMBER: 600-1-200

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 201-487-5800
 TELEX: 133521
 FAX: 201-343-1684

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:
 LENGTH: 2237 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ORIGINAL SOURCE:
 NAME/KEY: CDS
 ORGANISM: Mus musculus
 FEATURE:
 LOCATION: 142..1092
 SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 US-10-017-910-3

Query Match 97.4%; Score 1588; DB 13; Length 2237;
 Best Local Similarity 99.6%; Pred. No. 0;
 Matches 1624; Conservative 0; Mismatches 3; Indels 4; Gaps 0

QY 1 CGCGCGTCCACAGGAGGCTCGACCGGCTCGGCGCCCGC 60
 Db 206 CGCGCGTCCACAGGAGGCTCGACCGGCTCGGCGCCCGC 265
 QY 61 CACCGCGCCCTCCGCTCCAGTCTGCTGGCCCTCTGGCTGACTGCGCC 120
 Db 266 CACCGCGCCCTCCGCTCCAGTCTGCTGGCTGACTGCGCC 325
 QY 121 TCTGAGCTGCTCTGTTGAGGAGCTGAGCTGAGGAGGATGAGCTGGCG 325
 Db 326 TCTGAGCTGCTCTGTTGAGGAGCTGAGGAGGATGAGCTGGCG 385
 QY 181 AAGACAGCACTCACTCTTATGAGTCTGAGGAGCTGAGGAGGATGAGCTGGCG 240
 Db 386 AAGACAGCACTCACTCTTATGAGTCTGAGGAGCTGAGGAGGATGAGCTGGCG 360
 QY 241 ACTCGACTCTGAGGAGGAGACACTACTCTGAGCTGAGGAGGATGAGCTGGCG 445
 Db 446 ACTCGACTCTGAGGAGGAGACACTACTCTGAGCTGAGGAGGATGAGCTGGCG 300
 QY 301 TCTCGGGCGCTGAGGAGGAGCTGAGGAGCTGAGGAGGATGAGCTGGCG 505
 Db 506 TTCAAGGGGGCGTGCAGAGGAACATGCAACACATGTTGGGCCACACGGCTCTCAGGAG 565
 QY 361 CTTCGCGCTAGTGTGAGGAGGAGCTGAGGAGGATGAGCTGGCG 420

QY	421 AGCCATTGACACCTCUCATCATGTCAGCATGCCAGCATCCATGGTCAAGCTGAGGTGGCCAGGGCAAGCTGAGCCC 625
Db	626 AGCCATTGACACCTCUCATCATGTCAGCATGCCAGCATCCATGGTCAAGCTGAGGTGGCCAGGGCAAGCTGAGCCC 480
QY	481 CTCGTCTCTGGTACACGATCGAGCTGCACATCACTGGTCCATAAAGTC 685
Db	686 CTCGTCTCTGGTACACGATCGAGCTGCACATCACTGGTCCATAAAGTC 540
QY	541 AGGAAACTAGGGTACCAAGATGGCTCTATTAACCTGACCCACATTCTTC 600
Db	746 AGGAAACTAGGGTACCAAGATGGCTCTATTAACCTGACCCACATTCTTC 600
QY	601 GGCATCATGAACACCGGAAGCGTACCTACAGACTATCTCACCTGATGGTACCGACATTCCTACCTGACCCACATTCTTC 805
Db	806 GGCATCATGAACACCGGAAGCGTACCTACAGACTATCTCACCTGATGGTACCGACATTCCTACCTGACCCACATTCTTC 805
QY	661 TAAACACCATCAATCCCAAGTCATAACCTGATGAAGGGAGGAGCAAA 720
Db	856 TAAACACCATCAATCCCAAGTCATAACCTGATGAAGGGAGGAGCAAA 720
QY	721 ACTGTCGGCAATTGATTCACATTATGCCATAATGATGAAGGGAGGAGCAAA 925
Db	926 ACTGTCGGCAATTGATTCACATTATGCCATAATGATGAAGGGAGGAGCAAA 780
QY	781 TCCGACCTGGTGAAGAATTGATTCACATTGATGCCAACTTCAGTCAAGCTGGGAGTTTCAGC 985
Db	985 TCCGACCTGGTGAAGAATTGATTCACATTGATGCCAACTTCAGTCAAGCTGGGAGTTTCAGC 840
QY	841 ACGATGCCAGCTTGCGGTTCAACTCAGGACATAGACTGAGCTATTCAGT 900
Db	1046 AAGATGCCAGCTTGCGGTTCAACTCAGGACATAGACTGAGCTATTCAGT 900
QY	901 GACATAGCAGTGGGCTTCAAGTTCAGGACATAGACTGAGCTATTCAGT 1105
Db	1106 GACATAGCAGTGGGCTTCAAGTTCAGGACATAGACTGAGCTATTCAGT 960
QY	961 ACATGTTAGACTTAAGAGCATGGCCACGGTGTAGAACCTCACAGCCTCTC 1020
Db	1166 ACATGTTAGACTTAAGAGCATGGCCACGGTGTAGAACCTCACAGCCTCTC 1020
QY	1021 TTGAG-CCTGATACAGGTGTTACAGGTGTTACAGTAACTCACAGCCTCTC 1225
Db.	1226 TTGAGCCCTGATACAGGTGTTACAGTAACTCACAGCCTCTC 1079
QY	1080 TTGAGCCCTGATACAGGTGTTACAGTAACTCACAGCCTCTC 1285
Db	1285 TTGAGCCCTGATACAGGTGTTACAGTAACTCACAGCCTCTC 1139
QY	1140 TATTCGATGCTTATGAAACTTACAGGTGACTGAGGGCTCACAGCTGG 1345
Db	1346 TATTCGATGCTTATGAAACTTACAGGTGACTGAGGGCTCACAGCTGG 1199
QY	1200 TCTAACCCCTGGACATGGCAACTGAGAACCTGAAATTAGAGGATGCCATG 1404
Db	1405 TCTAACCCCTGGACATGGCAACTGAGAACCTGAAATTAGAGGATGCCATG 1259
QY	1250 AAAGAAATGATGATGGAGGGTTAAGTCTTGTACATGGCTGGACCTG 1464
Db	1465 AAAGAAATGATGATGGAGGGTTAAGTCTTGTACATGGCTGGACCTG 1319
QY	1320 CAATGATGCTTCTATGAGGGAGAAATATGATTTATATATGCT 1524
Db	1525 CAATGATGCTTCTATGAGGGAGAAATATGATTTATATATGCT 1379
QY	1380 AAAGTATATTGATGGAGGGTTAAGTCTTGTACATGGCTGGACCTG 1582
Db	1583 AAAGTATATTGATGGAGGGTTAAGTCTTGTACATGGCTGGACCTG 1439
QY	1440 TAGTATTGATGATGGAGGGTTAAGTCTTGTACATGGCTGGACCTG 1642
Db	1643 TAGTATTGATGATGGAGGGTTAAGTCTTGTACATGGCTGGACCTG 1499
QY	1620 AGATCTTCAG 1630
Db	1823 AGATCTTCAG 1833
RESULT 6	
US-10-218-547-21	
Sequence 21, Application US/10218547	
Publication No. US20030100074A1	
APPLICANT: Human Genome Sciences, Inc.	
TITLE OF INVENTION: Methods And Compositions For Treating Metabolic Bone Diseases	
FILE REFERENCE: PP561	
CURRENT APPLICATION NUMBER: US/10/218,547	
CURRENT FILING DATE: 2002-08-15	
PRIOR APPLICATION NUMBER: 60/312,542	
PRIOR FILING DATE: 2001-08-16	
PRIOR SOFTWARE: PatentIn version 3.1	
NUMBER OF SEQ ID NOS: 57	
SEQUENCE ID NO. 21	
LENGTH: 2271	
TYPE: DNA	
ORGANISM: human	
US-10-218-547-21	
Query Match	
Best Local Similarity	
Matches 1285; Conservative	
0; Mismatches 314; Indels 47; Gaps 11;	
QY	1 CGCGGTCCACAGGAGGTGGCTGGTGCACCCCGGCCTCTGCACCGGCTCGGCCCGC 60
Db	249 CGCGAGCCCGCAGAGGGCCCGCTGCACGCCCGC--CGCCGCTGCACCGC 305
QY	61 CACCGGCCCTCCGGCTCATGGTCTGGCCCTCTGGGGCTGGACTGGCCAGGTG 120
Db	306 CCCCGCCGCCCTCCGGCTCATGGTCTGGCCCTCTGGGGCTGGCCAGGTG 365
QY	121 TCTGACCATGCTCTGGTCTGACTTGTGAGGCCAGATGGATCTAACAGATATCG 180
Db	366 TCTGACCATGCTCTGGTCTGACTTGTGAGGCCAGATGGATCTAACAGATATCG 180
QY	181 AACAGCACCTCGCTTATGAAACTTACAGGTGGCTGGACCTGAGATGGATCTAACAGATATCG 425
Db	426 AACAGCACCTCGCTTATGAAACTTACAGGTGGCTGGACCTGAGATGGATCTAACAGATATCG 240
QY	241 ACTCGACTCTGGAGGTGAGACAC-----ACTACCTGACTCTGGAGGTGAAAC 485
Db	486 AACACACTCTGGAGGTGAGACAC-----ACTACCTGACTCTGGAGGTGAAAC 294
QY	295 AACGCTTCAGGGGCCCTGCAAGAGGACTGCAACATGTTGGCCACAGGCCT 545
Db	546 AGGCTTCAGGGACTGCAACAGGATTCAGGACATGGCTGGACCTGAGCT 354
QY	355 CAGGAGCTCAGCATGATGGAGGCCATGTTGGAGGTGGCTGGCCAGGGAGCTG 605
Db	606 GAGCAGAGAAAGCGATGTTGGCTGGCCAGGGAGCTGAGCT 665
QY	415 AGGCCAGCATTTGCACCCATCACTGCTGCCACATCCATGCTGGACCTG 665
Db	666 AGCTGAGCTTGTGCTCACTTATGCTTACCCACCTGCTGGCCACATCCATGCTGGACCTG 474

QY 475 AACTCACTCTGCTCTTGACCAACAGATGGGGCTGGCCAAAGATCTCATGACCT 534
 726 AATGAGCTCTCTCTGCTGGACATGATGGGGCTGGCCAAAGATCTCATGACCT 785
 QY 535 TAGCAACGGAAACTTAAAGGGTAACCAAGAAGGGCTCATACCTGACCAACATT 594
 Db 786 TTAGCATGGAAACTAACTTAACTTCAGATGCGCTTATACCTGACCAACATT 845
 QY 595 GCTTGGCACATGAACCTGGGAGGGTACCTACAGACTATCTCAGCGATGCGT 654
 Db 846 GCTTGCACATGACATGAGACTCTAGAGACTCTAGCTACAGATGCGT 905
 QY 655 ATGCTCTTAAACCAAGCATCAAATCCCAAGTCTCATACCTGACGAAAGGGACA 714
 Db 906 AGCTCACTAAACCAAGCATCAAATCCCAAGTCTCATACCTGACGAAAGGGACA 965
 QY 715 CGAAAACCTGGTGGGAATTCTGAACTTCACATTATCCATAATGTTGGGGATT 774
 Db 966 CCAAGTATGGTCAAGGAATTCTGACATTCATTTTCAAACTGTTGGGGATT 1025
 QY 775 TAACTCCGAGCTGGTGAAGAATTAGCATCAGGTCTAACCCCTCCGTCGGATC 834
 Db 1026 TTAAGTTAGGTCTGGAGAGGAGATCAGTCAGGTCCTCCACCCCTCTCGGATC 1085
 QY 835 CGGATCAAGATGGGAGCTACTTGGGCTTCAAACTTCAGGACATAGTGGAGCT 894
 Db 1086 CGGATCAAGATGCAACTTGGGCTTCAAACTTCAGGACATAGTGGAGCT 894
 QY 895 TTCTGGACATTTAGCTGGAGGTTGGAACTCTCTAAAA-----AT 947
 Db 1146 TTCTGGAGCTGCTGTTGGATGTTGGAGACATTTAAAGAACGCCAA 1202
 Cy 948 GTGTAATGCTCTACATGTTGAGACTACTAAGACATGCCAACGGTGTAGAACCT 1007
 Db 1203 GAAGAAGTATGTTGCTGCTGAGACTACTAAGACATGCCAACGGTGTAGAACCT 1262
 QY 1008 AGRGCCCCCTCTCTGACCGCTTACAGGTGTATATTAAGTCCATGGGTGATC 1067
 Db 1263 ACTATCCATGCTCTGACCTTGTAGAGACGGGATCTGGAGATGAGATGTTA 1322
 QY 1068 GATTCATGGT-ATRACACACGGTTACAAATTGATGTTCTAGATGATGACCT 1126
 Db 1323 GACTCATGGTGTGTTACACATGGTTAAATTGTTGATGATTCCTAGATTAACC 1382
 Qy 1127 AGATGGAGAGGTTTCCGATGGTTTAACTACACGGTATACGGAGGGGT 1186
 Db 1383 AGATGGAGGAATTGGGTGTACCTTGTAGAGAACCTGATGCGCTATGGGGT 140
 Qy 1187 CACAGTCTCTGGCTAACCCCTGGACATGTCACAGAAGACCTGAAATTAGAGAT 1246
 Db 1441 -----TTGGTCCCCTGTCAGTCAGTGGCCCTCGCAGC-TGAAGTGGAGGGT 1485
 Qy 1247 GCCTGGCTCTGGAAAGAATGTAGCTGGGGTTAAGTCTTGTAACTTGTACATT 1306
 Db 1486 GTCATCT-AGCGGACATGGAGGTCATGCTGGCCAAATTCTTGTACATC 1544
 Qy 1307 GCGCTGGACCTCTCAAACTTAACTTGTCTTGTAACTGGAGGAGAAATAGTATT 1660
 Db 1545 ATCTGGACCTCTCAAAATAC---TTTCTCTATGGAGGGAAKAAATATGATT 1600
 Qy 1367 TTATATAATGCTCTAACTTAACTTGTAGCTGCTGCAAGTTGTAAAT 1426
 Db 1601 TTATATAATGCTCTAACTTAACTTGTAGCTGCTGCAAGTTGTAAAT 1660
 Qy 1427 TATTTGCTCTGCTCTAACTTAACTTGTAGCTGCTGCAAGTTGTAAAT 1486
 Db 1661 TATTTGCTCTGCTCTAACTTAACTTGTAGCTGCTGCAAGTTGTAAAT 1426
 Qy 1487 TATTTGCTCTGCTCTAACTTAACTTGTAGCTGCTGCAAGTTGTAAAT 1541
 Db 1721 TATTTGCTCTGCTCTAACTTAACTTGTAGCTGCTGCAAGTTGTAAAT 1780
 Qy 1542 GCTACTCTGCTCTGCTCTAAAGGGGCAGAATCTGCTGCTGACCATGACTT 1601
 QY 535 TANGCAACGAAACTTAACTGGGTTAAGGAACTTAACTGCTGCTGACCATGACTT 594

RESULT 7
 US-10-272-411-51
 ; Sequence 51, Application US/10272411
 ; Publication No. US20030100064A1
 ; GENERAL INFORMATION:
 APPLICANT: Barnes Jewish Hospital
 APPLICANT: Lam, Jonathan
 APPLICANT: Ross, F. Patrick
 APPLICANT: Teitelbaum, Steven
 TITLE OF INVENTION: RANKL MMICS AND USES THEREOF
 FILE REFERENCE: 60019650-0202
 CURRENT APPLICATION NUMBER: US/10/272,411
 CURRENT FILING DATE: 2002-10-15
 PRIORITY FILING DATE: 2001-10-15
 NUMBER OF SEQ ID NOS: 52
 SEQ ID NO 51
 LENGTH: 2201
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-10-272-411-51
 Query Match Best Local Similarity 57.0%; Score 928.6; DB 14; Length 2201;
 Matches 1285; Conservative 0; Mismatches 314; Indels 48; Gaps 12;
 QY 1 CCGGGCTCCACAGGGCTCCCTGCAACCCGGCCTCTGGCCACGGCTCCGGGGCG 60
 Db 193 CCGGGCTCCACAGGGCTCCCTGCAACCCGGCCTCTGGCCACGGCTCCGGGGCG 249
 QY 61 CACCGCCCGCTCCGGCTCAGTCTGGCCCTCTGGCCCTSGACTCGGGCAGTGG 120
 Db 250 CCCCGGGCGCTCCGGCGCCCTGGCCCTCTGGCCCTCTGGCCCTGGGGCGGGCAGTGG 309
 QY 121 TCGCAGGATGCTCTGTTCTGACTTTCGAGCCAGGAGGAGCTACAGATATAG 180
 Db 310 TCGCAGGATGCTCTGTTCTGACTTTCGAGCCAGGAGCTACAGATATAG 369
 QY 181 AACACAGACTACTCTGTTATGAGTCAGGCTCATGAGCAGATTGAGTCCTATAGATAG 240
 Db 370 AACATGGCAGCTACTGATTTAGATTGAGTCCTGAGTCCTGAGAATGCGATTTCAG 429
 QY 241 ACTCGACTCTGGAGACTGAGACAC-----ACTACCTGACTCTGGAGGATGAAAC 294
 Db 430 ACACACTCTGGAGACTCAAGATCAAAATTAACTGGAGGATTCATGAGGAAATTAAC 489
 QY 295 AACCTTCTGGGGCGTCCAGGAGGACTGCAACAGATTGGGCCACAGATTGGGCCACAGCTTCA 354
 Db 490 AACCCCTTCAGGAGACTCTGGCAAAAGGATTAACATCATCTTGTACAGACATCA 549
 QY 355 CAGGAGCTCTGGCTATGAGGAGGCTATGCTGGAGGCTGCGCCAGGCGAACGCTG 414
 Db 550 GAGCAGAGAAGCAGTGGAGGGCTATGCTGGAGGAGGCTGCGCCAGGAGGAGCTG 609
 QY 415 AGGCCACGGCTACCTGACCTTACCTGAGGAGGATTAACATCATCTTGTACAGACATCA 474
 Db 610 AACGTCAGCTCTGGCTATGCTGGAGGAGGCTGCGCCAGGAGGAGCTGCGCCAGGAGCTG 659
 QY 475 AAGTCACTCTGGCTCTGGTACCTGAGGAGGCTGAGTGGCAGTCTGAGCT 534
 Db 670 AAGTGGAGCTGCTCTGGTACCTGAGGAGGCTGAGTGGCAGTCTGAGCT 729
 QY 535 TANGCAACGAAACTTAACTGGGTTAAGGAACTTAACTGCTGCTGACCATGACTT 594

Qy	730	TGAGCAATGGAAACTAATAGTTAATCAGGATGGCTTATTACCGTGATGCCAACATT	789
Qy	595	GCTTCGCATCATGAAACATCGGAAGCTCTACAGACTATCTCAGTGATGGGT	654
Db	655	AGTCGTTAACCCAGCATCAAATCCAACTGCTCTATAACCTGATGAAAGGGAGCA	654
Qy	790	GCCTTCGACATCATGAACTCTCGAGGAGCTAGTCAGAGATCTCTCAACTAATGGT	849
Db	850	AGTCGTTAACCCAGCATCAAATCCAACTGCTCTATAACCTGATGAAAGGGAGCA	714
Qy	715	CGAAACTGGTGGCGAACTCTGAAATCCACTTATCCATAAATCTGAGTGGGAGTT	774
Db	910	CCAAGATGGTCAGGGAACTCTGATGATCTGATTCATTAACAGTGATGGGAGTT	774
Qy	775	TCAAGTCCGAGCTGCTGAGAAATTAGCATCAGTCAGTCTCATACCTGTGAGAAGGAGCA	909
Db	970	TAACTGATCGCTCTGGAGGAAATCAGATCGATGCTCCAACTCCGGAGGA	834
Qy	835	CGGATTAAGTGGCGAGCTACTTGGCTTCAGGATAGCTGAGACTCT	894
Db	1030	CGGATTAAGTGGCGAGCTACTTGGCTTCAGGATAGCTGAGACTCT	1089
Qy	895	TTCGCGAACATTAACATGATGCTTAGATGTTGAAACTCTTAAA-----AT	947
Db	1090	TTCGCGAACATTAACATGATGCTTAGATGTTGAAACTCTTAAA-----AT	946
Qy	948	GGATGATGCTATACATGTTAAAGACTACTAACAGACATGGCCACSGTGATGAACTC	1146
Db	1147	GAAGATGTTATAGTGGAGACACTAACAGGCTGGCCACAGGTACAGACTC	1007
Qy	1008	ACACCCCTCTCTGAGCTGAGCTGAGACACCGTATACCTGCGAGTGGAGCT	1206
Db	1207	AGTATCAGCTGTTACACACAGCTGAGCTGAGACACCGTATACCTGCGAGTGGAGCT	1066
Qy	1067	AGATCTCTGTTACACACAGCTGAGCTGAGACACCGTATACCTGCGAGTGGAGCT	1266
Db	1257	AGACTCTGCTGTTACACACAGCTGAGCTGAGACACCGTATACCTGCGAGTGGAGCT	1125
Qy	1126	CAGATTCGAGGAGTATTCGATGCTATGAAACACTACCGTGGCTATGAAAGGG	1326
Db	1327	CAGATTCGAGGAGTATTCGATGCTATGAAACACTACCGTGGCTATGAAAGGG	1185
Qy	1186	TCAGCTGCTGGCTCACCTGGCATGGCTGAGACACCTGAGAACTTCGAGTAAAC	1385
Db	1386	TCAGCTGCTGGCTCACCTGGCATGGCTGAGACACCTGAGAACTTCGAGTAAAC	1245
Qy	1426	TGCCATCTCATGCCAACAAATGATGATGTTGAGGTTAATGCTTGTGATGAGGG	1429
Db	1430	TGCTCATCTCATGCCAACAAATGATGATGTTGAGGTTAATGCTTGTGATGAGGG	1305
Qy	1430	TGCTCATCTCATGCCAACAAATGATGATGTTGAGGTTAATGCTTGTGATGAGGG	1488
Db	1306	TGCCATCTCATGCCAACAAATGATGATGTTGAGGTTAATGCTTGTGATGAGGG	1365
Qy	1489	CATGCTGAACTGCAAATAC - TTTCATGAGGAG-AATAATATGATT	1544
Db	1366	TTATATTAATCTAACAGTTATTCAGCTGAGGATCATCGAGGCGAACATCTTGTGATCAT	1425
Qy	1545	TTATATTAATCTAACAGTTATTCAGCTGAGGATCATCGAGGCGAACATCTTGTGATCAT	1604
Db	1426	TTATATTAATCTAACAGTTATTCAGCTGAGGATCATCGAGGCGAACATCTTGTGATCAT	1485
Qy	1605	TTATATTAATCTAACAGTTATTCAGCTGAGGATCATCGAGGCGAACATCTTGTGATCAT	1664
Db	1486	TTATATTAATCTAACAGTTATTCAGCTGAGGATCATCGAGGCGAACATCTTGTGATCAT	1540
Qy	1665	TTATATTAATCTAACAGCTGAGGATCATCGAGGCGAACATCTTGTGATCAT	1724
Db	1541	AGGACTCTCTAGCTAACGGGCGAAATCTGTTCTGCAAGATGTTGAA	1600
Qy	1725	ACTGCGCTAACGGGCGAAATCTGTTCTGCAAGATGTTGAA	1627
Db	1501	TTATATTAATCTAACAGTTATTCAGCTGAGGCGAACATCTTGTGATCAT	1784
Qy	1785	TCGTCCTTTAGTTAGTAACTGATTT	1811
RESULT 8			
US-10-272-328A-51			
; Sequence 51, Application US/1027238A			
; Publication No. US2003010544A1			
; GENERAL INFORMATION:			
; APPLICANT: Barnes Jewish Hospital			
; APPLICANT: Lam, Jonathan			
; APPLICANT: Ross, F. Patrick			
; APPLICANT: Teitelbaum, Steven			
; TITLE OF INVENTION: RANKL MINICS AND USES THEREOF			
; FILE REFERENCE: 60019620-026			
; CURRENT APPLICATION NUMBER: US/10-272, 328A			
; PRIORITY APPLICATION NUMBER: 60-329, 393			
; PRIORITY FILING DATE: 2001-10-15			
; NUMBER OF SEQ ID NOS: 51			
; SOFTWARE: Patentin version 3.1			
; LENGTH: 2201			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
US-10-272-328A-51			
Query	Match	57.0%	Score 928.6; DB 14; Length 2201;
Best Local Similarity	78.0%	Pred. No. 2.9e-226;	
Matches	1285;	Conservative 0; Mismatches 314; Indels 48; Gaps 12;	
Qy	1	CCGGCGTCCACAGGGGTCGCTGAGCCCTGCGCTCTGACACGGGCGCCGGCG	60
Db	193	CCGAGGCCGCCGACAGGGGCCCTCGACCCGACCGAGC	249
Qy	61	CACCCGCCCTCCCTCATGTTCTGSCCCTCTGGGCTGGAGCTGGGGAGGG	120
Db	250	CCCCGCCGCCCTCCGCTCCATGTTCTGSCCCTCTGGGCTGGGGAGGG	309
Qy	121	TCTGCGCATGCTCTGTTCTGACTTCTGAGGCCAGTTGAGAACTACAGATACG	180
Db	310	TCTGCGCATGCTCTGTTCTCATGTTGAGGCCAGTTGAGAACTACAGATACG	369
Qy	181	AAGACGACATCATGCTTATGAACTCTGAGACTCATGAAACCGAGTTGGAG	240
Db	370	AAGTGGCACTCATGCTTATGAACTCTGAGACTCATGAAACCGAGTTGAGATTCAG	429
Qy	241	ACTGACTCTGGAGCTGAGACAC-----ACTACCTGACTCTGGAGGGATGAAAC	294
Db	430	ACGACATCTGGAGCTGAGATCAAAATTAACCTGATCTGAGGAGATTAAC	294
Qy	295	AAGCTTTCAGGGCCCTGCGAGGAGACTGAGACATCTGAGGAGCTCT	354
Db	490	AGGCTTCAAGGGCTGTGCAAAAGGATTACACATCTGTTGATCTGCGCACAGCATCA	549
Qy	355	CAGCCGACCATTTGCACCTCACATCACTGCTCCAGATCCATCGGTCCATA	474
Db	550	GAGCAGAGAACGGATGCTGGATGCTGGATGCTGGCCAGGAGCAAGCTTGTGAGCT	414
Qy	415	AGGCCGACCATTTGCACCTCACATCACTGCTCCAGATCCATCGGTCCATA	609
Db	610	AGCTCAGCCCTTGCACCTCACATCACTGCTGGATGCTGGCCAGGAGCAAGCTTGTGAGCT	669
Qy	475	AAGTCACTCTGCTCTGACCGCGATCGAGGGCTGAGCTCTACAGATGAGCT	534
Db	670	AGTGAATCTGTCCTCTGGTACCATGATGGCTGGCTGGCCAGGAGCAAGCTTGTGAGCT	789
Qy	595	GCTTGGCATCATGAAACATCGGGAGCTACCTACAGATCTCTGAGGAGCT	654
Db	730	TAGCATGAAACATCTGAGGAGCTACCTACAGATCTCTGAGGAGCT	594

GENERAL INFORMATION:
 APPLICANT: Barnes Jewish Hospital, d/b/a The Jewish Hospital of St. Louis
 TITLE OF INVENTION: STIMULATION OF OSTEOGENESIS USING RANK LIGAND FUSION PROTEINS
 FILE REFERENCE: BUCH 10054.1
 CURRENT APPLICATION NUMBER: US/10/105,057
 CURRENT FILING DATE: 2002-03-22
 PRIOR APPLICATION NUMBER: US 60/277,855
 PRIORITY DATE: 2001-03-22
 NUMBER OF SEQ ID NOS: 6
 SOFTWARE: Patentin version 3.1
 SEQ ID NO: 1
 LENGTH: 951
 TYPE: DNA
 ORGANISM: Mus musculus
 US-10-105-057-1

Query	Match	Best Local Similarity	Score	DB	Length
OY	948	GGATGAGTCTATACTGTTAAGACTAAGACATGGCCACGGCTGTGAACT	894	Db	1030
OY	970	TTCAGTACGGCTCGAGGAAATCAGCATCGACTTCACCCCTCTACTGAC	1029	Db	835
OY	1090	TTTTGGAGAGTT--ATGATTCTGGGTTGAGACATTAAACACGCCA	947	Db	910
OY	1146	CGGATCAGAGCGRCGACTCTGGCTTCAGAGTCAGGACATAGTGAGACT	909	Db	910
OY	1147	GAAATGATATAGTGGTGTGAGACTACTAAGAGGATGCGACAGGCT	1007	Db	1147
OY	1148	ACAGCCCTCTCTGAGCTGTAGAGTCAGGCTGTGATANGTAAGTCN	1206	Db	1008
OY	1149	ATGATTCATCTCTGACCTTGAGCTGTAGAGTCAGGCTGTGAACT	1066	Db	1207
OY	1150	1057 AGATTCATGCTGATTAAGTGGTGTGAGACTACTAAGAGGATGCGAC	1266	Db	1057
OY	1151	1267 AGACTCATGCTGCTTACACATGGTGTGAGCTGTAGATGAC	1125	Db	1267
OY	1152	1126 CAGAATGGGAGAGTTTCGGGAGCTATGAAACACTAACCTGAGCT	1326	Db	1126
OY	1153	1327 CAGATGGACCAATTACCGGGTGTGACCTTATGAAACAGTGCAG	1185	Db	1327
OY	1154	1186 TCACAGTCCTGGCTTACCCCTGGACATGCCATGAGACCTGAA	1245	Db	1186
OY	1155	1386 -----TTGTCCTGGCTCATGTCGCCCTCGCAGC-TGAAGTGGAGGG	1429	Db	1386
OY	1156	1246 TGCATGTCATTGCAAAAGAAATGATAGTGTGAGGGTGTAGCT	1305	Db	1246
OY	1157	1430 TGTGATCTAGCCATTGAAAGGATGCTGAGGCT	1305	Db	1430
OY	1158	1366 TTATATATAGTGTAAAGTTATTCAGGTGTAACTGTTCTGCAAGTT	1488	Db	1366
OY	1159	1545 TTATATATAGTGTAAAGTTATTCAGGTGTAACTGTTCTGCAAGTT	1365	Db	1545
OY	1160	1425 TTATATATGTTGTTATGATGTTGAACTGCAAAATPAC--TTTCTAATGAGGAG	1485	Db	1425
OY	1161	1605 TTATATGTTGCTATAGTATGTCAGATGCAAAATTAATGAGCTT	1664	Db	1605
OY	1162	1486 TTATATGTTAATGTCAGATGTTACTGGTCACTGTGTTCTCCCTG	1540	Db	1486
OY	1163	1665 TTATGTTTAAATGTCAGACATATTGTTACTGGTCACTGTGAA	1724	Db	1665
OY	1164	1441 AGTACTCGTGTGAGCTAAGGGCCAGATACTGTTGTGACCA	1600	Db	1441
OY	1165	1725 ACTGCKGCTAAGGGGAAATAATGTTGTTCTTATCATGCAATGCA	1784	Db	1725
OY	1166	1601 TTATCTTTRACTATAGTCCT 1627	1784	Db	1601
OY	1167	1785 TGTCTTTAAGTATGATT 1811	1784	Db	1785

RESULT 10

Sequence 1, Application US/10017910
Publication No. US20030159370A1
GENERAL INFORMATION:
APPLICANT: Choi, Yongwon
Josien, Regis
Steinman, Ralph

TITLE OF INVENTION: A PROTEIN BELONGING TO THE TNF SUPERFAMILY ENCODING SAM INVOLVED IN SIGNAL TRANSDUCTION, NUCLEIC ACIDS ENCODING SAM METHODS OF USE THEREOF

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:
ADDRESSEES: Klauber & Jackson
STREET: 411 Hackensack Avenue, 4th Floor
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, version #1.30

CURRENT APPLICATION DATA:
NAME: Jackson, Esg, David A.
APPLICATION NUMBER: US/10/017,910
FILING DATE: 14-Dec-2001
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/447,035
FILING DATE: 1999-11-22
ATTORNEY/AGENT INFORMATION:
NAME: Jackson, Esg, David A.
REFERENCE/DOCKET NUMBER: 26,742
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
TELEFAX: 201-343-1684
TELEX: 133521
INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 1823 base Pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: Linear

MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: 1..738
SEQUENCE DESCRIPTION: SEQ ID NO: 1:

Query Match 51.1%; Score 832.8; DB 13; Length 1823;
Best Local Similarity 77.8%; Pred. No. 7.2e+20; Matches 1159; Conservative 0; Mismatches 287; Indels 44; Gaps 11;

155 CAGATGGTCTAACAGATAATCAGAGACCACTCACTGCTTATAGATCCCTGAGA 215
1 CAGATGGTCTAACAGATAATCAGAGACCACTCACTGCTTATAGATCCCTGAGA 60
215 CTTCAGTAAACCGAGATTCAGGAGCTGACTCTGAGAGTGAGACTGACCA-----ACTA 269

Db 845 TCCGASCTGGTGAAGAAATTACATTCAGGNTCCACCCCTCCCGCTGATCCGGATC 904
Qy 841 AAGATCGGACCTACTTGGGCTTCAGTCAGGACATAGCTGA 887
905 ANGATGGACCTACTTGGGCTTCAGTCAGGACATAGCTGA 951

Db 270 CCTGATCTCGCAGGAGGTGAAACAGCTTCAAGGGCCCTGCAGAGACTGAA 329
121 CCTGATCTCGCAGGAGGTGAAACAGCTTCAAGGGCCCTGCAGAGACTGAA 329

Db 330 CACATGTGGGCCACASGCCCTCAGGCTCCAGGCTCCAGCTATGATGGAGGCTATGGT 389
181 CATACTGTTGATCACAGCACATGAGCAAGAAASGATGTTGGATGGCTATGGTA 240

Db 390 GATGTGGGCCAGGGAGCTGAGCCACCCATTCAGCAGCTACCTCAATGCT 449
241 GATCTGGCCAAGGAGGAGCAGCTGAAGCTCAGGCTTGTCTCATCTACTTAAAGCC 300

Db 450 GCGAGCATCCATGGGTCCATAAGTCACCTCTGTCCTCTGTTGGTACACATGAGG 509
301 ACCGACATCCACATCTGGTCCCTAACTGAGSTCTGTCCTCTGTTGGTACCATGTCGGGG 360

Db 510 TGGCCCAAAGATCTCTAACATGAGCTTAAAGCAAGGGAAACTTAGGGTAAACAGATGGC 569
421 TTATTAACCTGATATGCCAACATTTCGCTTGCACATCATGAAACATTCAGGACCTAGCT 480

Db 361 TGGGTAAAGATTCACATGACTTATGCAATGTTAGCAATGGAAACTTAACTATTAATGAG 420

Db 630 ACAGACTATCTGAGCTGATGCTGTTGCTTAACACCACTAAATCCCTAGTCT 689
481 ACGRAGATCTCTGAACTAATGGTGTAGCTTAAACACGACATGAAATCCCTAGTCT 540

Db 570 TCTCTTACCTGCTACGSCAACATTGCTTGGCATCATGAAACATGGGAGCGTACT 629
421 TTATTAACCTGATATGCCAACATTTCGCTTGCACATCATGAAACATTCAGGACCTAGCT 660

Db 690 CATAACCTGTGTAAGGAGGAGGAGCAGGAAMACTGTCGGCAACTCTGATTCACCTT 749
541 CATACCCCTGATGAGAACAGGAGAACGACAACATTGTCAGGAAATCTGATTCATTT 600

Db 750 TATCCATAATGTTGGGATTTCGAACCTCCAGCCTGGTGAAGAAATTAGCATCG 809
601 TATCCATAACGCTTGGTGGATTTTAGTACGGCTGGAGGAAATCAGCATCGAG 660

Db 810 GTGTCACACCTTCCCTGCTGATCCGGTAACTACGGACGACTTCTGGGTTCAAA 869
661 GTCTCCAACCCCTCTTACTGGATCCGGTCAACATGGACGACTTCTGATTCATTT 777

Db 870 GTTGGAGCATAGACTGACTCACTTCTGGACATATTGATGATGATGTT 929
721 GTTGGAGATATAGATGAGCCCCAGTTGGAGT--ATGATTTCTGGATGTT 777

Db 930 GGAACTCTTAAAA-----ATGGATGATCTTACATGTAAGACTACTAACAG 982
778 GGAAACATTTTTAAAGAACGCAAGAAAGATGATATAGGGTTGGAGACTTAAGAG 837

Db 983 ACATGGCCACGSGTGTGAAACTCACAGCCCTCTCTGACCTCTACAGGTGTGA 1042
838 GCTGGCCCAAC-GTACACGACTCAATCCATGTCCTGACCTGAGACCGC 896

Db 1043 TATGTTAAGTCTCATAGCTGATTTAGTCTGATGGT-ATTACACAAAGGTATTAAATT 1101
897 TATTTACGCCAGTGGGAGATTTACTCTGTTGAGTACACATGGTTAAATT 956

Db 1102 TGTATATTTCTCTAGTGTGACGAGATGGAGGAGTTCCTGCTTATGAAAC 1161
957 TGTATATGAAATTCTCTGATTAACACAGATGGAGGAGTTCCTGCTTATGAAAC 1016

Db 1162 TTACACTGAGGTATGAAAGGGGTCACTGTCATGCAAGAAATGATGTTGAGGG 1221
1017 CTGCACTGGCTCATGGTGGGG 1060

Db 1222 CTGAGACCTGTTGAAAGGGGTCACTGTCATGCAAGAAATGATGTTGAGGG 1281
1061 CTTCAGCTGCACTGGAGGGGTCACT-AGCGCAATTGAGGATCATGGAAGG 1118

Db 1176 TCGAGGAGAG-AAAATATATGTTTATATAATCTAAAGTATATTCAATGTAAT 1234
 Qy 1402 GTTTCGTGCAAAGTTGTTAATTATTCGCTATAGTATTGATCAAATT 1461
 Db 1235 GTTTCGTGCAAAGTTGTTAATTATTCGCTATAGTATTGATCAAATT 1294
 Qy 1462 AAAATGTCGCACTTGACATATTAATCTTAAAGTAAAGTAAAGTATTACTGGT 1521
 Db 1295 AAAATGTCGCACTTGACATATTAATCTTAAAGTAAAGTAAAGTATTACTGGT 1354
 Qy 1522 CACTTGTAATTCCTG---AAGTACTCTGAGCTAGGGCAGATCTGTTCTG 1577
 Db 1355 CACTTGTAATTCCTGAGAAACTTGCACTAAAGGGAAAAAATGTTCTC 1414
 Qy 1578 GTGACCACTGAGTTATTCCTTAACTAATAGAGCTT 1627
 Db 1415 ATATCAATGCACTATATTCCTGAGCTTAAAGTAAAGATTT 1464
 RESULT 13
 US-9-871-855-12
 Sequence 12, Application US/09871856
 Patent No. US2002081720A1
 GENERAL INFORMATION:
 APPLICANT: Anderson, Dirk M.
 Galibet, Laurent
 Marakovskiy, Eugene
 TITLE OF INVENTION: Receptor Activator of NF-kappab
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immunex Corporation, Law Department
 STREET: 31 University Street
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 COMPUTER: Apple Macintosh
 OPERATING SYSTEM: Apple Operating System 7.5.5
 SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/871,856
 FILING DATE: 31-MAY-2001
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/996,139
 FILING DATE: <Unknown>
 APPLICATION NUMBER: USN 08/813,509
 FILING DATE: 07-MARCH-1997
 APPLICATION NUMBER: USN 08/772,330
 FILING DATE: 23-DECEMBER-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Perkins, Patricia Anne
 REGISTRATION NUMBER: 34,693
 REFERENCE/DOCKET NUMBER: 2851-A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)587-0330
 TELEFAX: (206)233-0644
 INFORMATION FOR SEQ ID NO: 12:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 954 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Homo sapiens
 IMMEDIATE SOURCE:
 LIBRARY: <Unknown>
 CLONE: hURANKL (full length)
 RESULT 14
 US-09-877-650-12
 ; FEATURE:
 ; NAME KEY: CDS
 ; LOCATION: 1..951
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 12:
 ; US-09-871-856-12:
 ; Query Match 37.7%; Score 615; DB 9; Length 954;
 ; Best Local Similarity 82.2%; Pred. No. 1 9e-146;
 ; Matches 734; Conservative 0; Mismatches 150; Indels 9; Gaps 2;
 ; QY 1 CCGCGTCCACAGGAGGTCCCTGACCCGCCTGACGGCCTGGACGGCTGGCGCC 60
 ; Db 65 CGCGAGCCGCCAGAGGGCCCTGACGCCGC--GGCCCTGGCGACGGCTGGCG 121
 ; QY 61 CACCGCCGCCCTGGCGCCAGTGGCTCTGGCCCTGGACCTGGACTGGCAGGTG 181
 ; Db 122 CCCCGCCGCCCTGGCGCCAGTGGCTCTGGCGCTGGCGCTGGCGCTGGCG 120
 ; QY 121 TCNGCAGCATCCTCTCTCTGTCACCTTGAGCGAGCTAACAGATATCAG 180
 ; Db 182 TCNCAGGTGCGCCGCTGTTCTCTATTCAGTCAGCCAGTGGATCCTAATGAC 241
 ; QY 181 AAGACAGCACTGACTCTTATAGATCCTGAGACTCCCTGAAACAGGATTTGAG 240
 ; Db 242 AGATGGCCTACIGATTTAGATTGAGTTGAGCTGCAAAATGAGTTCTG 301
 ; QY 241 ACTGACTCTGAGACTGAGACAC----ACTCTGACTCTGAGGAGATCACAG 294
 ; Db 302 ACACAATCTGGAGAGTCAGATAACAATTAATACCTGATTCATGAGGAAATAC 361
 ; QY 295 AACGCTTCTGAGGGCGCTGAGANGGAACATGCCACATGGTGGGCCACAGGCT 354
 ; Db 362 AGCCCTTCAGGAGCTGTCAAAGGATATCACATATCGTGGATCACAGCACATCA 421
 ; QY 355 CAGGACCTCCGCTATGAGTGGAGCTATGGTGGATGGCCACGAGCAAGCTG 414
 ; Db 422 GAGCAGAGAAGCGATGGTGGAGCTAACAGATATCGTGGATCACAGGCAAGCTG 481
 ; QY 415 AGGCCAGCATTGACACTCACCATACTGCGCAGCATCCCCTGGGTTCCATA 474
 ; Db 482 AAGTCAGCCCTTCTGTCATCTACTATATACTGACCGAGATCCATCTGTTCCATA 541
 ; QY 475 AAGTACTCTGCTCTGAGTACACGAGCTGAGGCTGGCGAGATCTPACATGAGT 534
 ; Db 542 AAGTGTCTGTCCTCTGGTACCATGTCGGGGTGGCGAGATCTCCACATGACT 601
 ; QY 535 TAAGAACCGAAACTAAGGTPAACCAAGAGGGCTCTATACCTGAGCTACATT 594
 ; Db 602 TTGCAATGGAACATTAATAGTAACTGAGTGGCTTATACCTGATGCCACATT 661
 ; Qy 595 GCTTGGCATCAGAACATGGGAAGGGCTACAGTACATCTCAGTGTGGT 654
 ; Db 662 GCTTCGACATCATGAGAACTTCTGGAGACCTGAGCTACATGTTCACTATGGCT 721
 ; Qy 655 ATGTCGTAAACCAACGATCAAAATCCAACTTCATAACTGTGTAAAGGGAGCA 714
 ; Db 722 ACCGCTCATRACACGAGTCATCAATCCAACTTCATACCTGATGAAAGGGAGCA 781
 ; Qy 775 TCTAGTCGGACTGTTGGAGAAATGAGTCAAGTGGTGGCAACCTCTGTC 834
 ; Db 842 TTAGTGTGCTGGAGAGGAATCAGATGTCCTTATTCATAAACCPTGGGATTT 841
 ; Qy 782 CCAGTATGTCAGGAATCTGATTCATTCATAAACCPTGGGATTT 901
 ; Db 835 CGATCAGAGCGAGCTTGGCTTCAAGTGCAGACAGTCAACCTGTC 887
 ; Qy 902 CGATCAGAGCGAGCTTGGCTTCAAGTGCAGACAGTCAACCTGTC 954
 ; RESULT 14
 ; US-09-877-650-12:

Sequence 12, Application US/09877650
Patent No. US2002016917A1

GENERAL INFORMATION:

APPLICANT: Anderson, Dirk M.

Galibert, Laurent

Maraskovsky, Eugene M.

TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunex Corporation, Law Department

STREET: 51 University Street

CITY: Seattle

STATE: WA

COUNTRY: USA

ZIP: 98101

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: Apple Power Macintosh

OPERATING SYSTEM: Apple Operating System 7.5.5

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09-877,650

FILING DATE: 08-Jun-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/995,659

FILING DATE: 1997-12-22

APPLICATION NUMBER: USSN 08/813,509

FILING DATE: 07-MARCH 1997

APPLICATION NUMBER: USN 08/772,330

FILING DATE: 23 DECEMBER 1996

ATTORNEY/AGENT INFORMATION:

NAME: Perkins, Patricia Anne

REGISTRATION NUMBER: 34,633

REFERENCE/DOCKET NUMBER: 2852-A

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206)587-0430

TELEFAX: (206)233-0644

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 954 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

ORIGINAL SOURCE:

ORGANISM: Homo sapiens

IMMEDIATE SOURCE:

LIBRARY: <Unknown>

CLONE: JURANKL (full length)

FEATURE:

NAME/KEY: CDS

LOCATION: 1..951

SEQUENCE DESCRIPTION: SEQ ID NO: 12:

; US-09-877-550-12

Query Match

Best Local Similarity 37.7%; Score 615; DB 10;

Matches 734; Conservative 0; Mismatches 150; Indels 9; Gaps 2;

QY 1 CGCGCGTCCACAGGAGTCGGCTGCAACCGGGCTCTGCACGGCTCGGGCGCGC

D5 65 CGGGAGCCGCCACAGGGGCCCTTGACGCCCGC--CGGCCCTCGGCCACAGC 121

QY 61 CACCGGGCCTCCGCTCATGTTCTGCCCTCGGGCTGGAGCTGGCCAGGTG

D5 122 CCCGGCCGCTCCGCTCAIGTCGTCGCCCTCGGGCTGGCCAGTG 120

QY 121 TCTGAGCATGCTGCTGACTTGAGCGAGATGGRCTTAACAGAAATACAG 180

D5 182 TCTGAGCATGCTGCTGACTTGAGCGAGATGGRCTTAACAGAAATACAG 241

181 AAGCACCACTCACTCTTATGAACTCTGAGCTCATGAAACCCAGATTGCGAG 240
QY 242 AAGATGCACTCAGTCATTAGAATTGAGACTTCATGAAAGCAGATTICA 240
Db 241 ACTCGACTCTGAGAGTGAGACAC---ACTACCTGACTCCCTGAGAGGAGAAC 294
QY 302 ACACAACCTCGAGAGTCAGATCAAAATTAACTCGATCTGAGGAAATTAAC 361
Db 295 AAGCCATTAGGGCCGCGAGAGACTGCAACCATGTTGGGAGCAGCCCTCT 354
QY 362 AGGCCTTCAGGGCTGCAAAAGGATTACACATATCGTGTGATCACAGCACATA 421
Db 355 CAGAGCTCAGCATGATGAGGCTCATGTTGGATGTTGGCCAGGAGAAC 414
QY 422 GAGCAGAGAAGGGATGGTGGATGCTGTTAGCTGGCCAGAGGAGACGTC 481
QY 415 AGGCCAGCCATTTGACCTCACACCTCACATCAATGCTGCCATCCATGGGTCCATA 474
Db 482 AACGTCAGCCTTGTCTCATCATTAACTTGTGCAAC 541
QY 475 AACACTCTGCCCTGGAACAGATGAGGCTGGGCAAGATCTAACATGAGC 534
Db 512 AACTGAGTCGTCCTGTCCTGTTACCATGATCGGGTGGCCAACTGCATCTCCACATGACTT 601
QY 535 TRAGCAAGGAAACATTAAGGTTAACCAAGATGGCTCATCCATGGGTCCATA 594
Db 602 TTAGCATGGAAAACATTAGTTATTCAGATGCTCTTATTCACCTGTC 774
QY 655 ATGTGTTAAACCCGATCAAACTCCAAAGTCTATACTGAGTAAGGAGGAGCA 721
Db 722 ACGTACTAAACCGACATCAAATCCAACTGCTCTATACCTGTGTCACATT 661
QY 595 GCTTGGCATCATGACATCAACTTCAGGAGCTAGCTAGATCTGAGTGTG 654
Db 662 GCTTGGCATCATGACATCAACTTCAGGAGCTAGCTAGAGTATCTCAACTTAATGGTGT 781
QY 715 CGAAAGACTGTCGGCATTCTGATTCACCTTATTCATAAATGTTGGGATT 774
Db 782 CCAAGTATGTTGAGGATGGTCGATTCGATTCATTTCATAAACGTTGGTGGATTT 841
QY 775 TCAAGCTCGAGGTGTCAGAAATAGTCATCAGSTGTCACACCCCTCCCTGTGTCAGCA 834
Db 842 TTAAGTTACGGCTGTGAGGAGAAATCAGCATGAGTCCTGAGCTCCAAACCCCTCTACTGGTC 901
QY 835 CGATCAGATGCGACACTTTGSGCTTCAAAGTCGAGCATAGCTGA 887
Db 902 CGGATCAGATGCGACACTTTGSGCTTCAAAGTCGAGCATAGCTGA 954

RESULT 15
US-09-791-153A-75
; Sequence 75, Application US/09791153A
; Publication No. US20030103978A1
; GENERAL INFORMATION:
; APPLICANT: Deshpande, Rajendra
; APPLICANT: Hitz, Anna
; APPLICANT: Boyce, William
; APPLICANT: Sullivan, John
; TITLE OF INVENTION: SELECTIVE BINDING AGENTS OF OSTEOPROTEGERIN BINDING PROTEIN
; FILE REFERENCE: A-633A
; CURRENT APPLICATION NUMBER: US/09-791-153A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/511,139
; PRIOR FILING DATE: 2000-02-23
; NUMBER OF SEQ ID NOS: 154
; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 75
; LENGTH: 522
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE: CDS
; NAME/KEY: CDS

; LOCATION: (4) . (513)
; US-0-9-791-153A;5

	Query	Match	Similarity	Score	DB	Length	Best	Loca	Score	DB	Length	Best	Loca
OY	390	GATGCGCCCGCGAGGCANGGCCAGGGCCAGCATTGCGACCTCACCTCAAGTGT	28.6%	466	11	522	Fred.	No.	1.4e-108	478	Conservative	96.0%	478
Db	19	GACGATGACAGAAGCTTAAGCTTGAGGCCACGTTGACCTAACATCGAACCTCAAGTGT	0	0	0	0	Mismatches	20	0	0	Indels	0	0
OY	450	GCCAGCATCCATCGGTCCTAACTAAAGTCACATGTCATCTGTCCTGGTACCCATCGAGGC	509	509	11	11	Matches	478	0	0	Gaps	0	0
Db	79	GCCAGCATCCATCGGTCCTAACTAAAGTCACATGTCATCTGTCCTGGTACCCATCGAGGC	509	509	11	11	0	0	0	0	0	0	0
OY	510	TGGGCCAAGATCTACATGACCTTAAGCAACGAAACTAAGGTTAACAGAGATGGC	138	138	11	11	0	0	0	0	0	0	0
Db	139	TGGGCCAAGATCTACATGACCTTAAGCAACGAAACTAAGGTTAACAGAGATGGC	569	569	11	11	0	0	0	0	0	0	0
OY	570	TCTCATACCTGACGCCAACATTGCTTCCGCATCTGAACATGGGAGCCACCT	629	629	11	11	0	0	0	0	0	0	0
Db	199	TCTCATACCTGACGCCAACATTGCTTCCGCATCTGAACATGGGAGCCACCT	629	629	11	11	0	0	0	0	0	0	0
OY	630	ACAGACTATCTAGCTAGCTAGTGCTGATGCTGATGCTGAAACACATCGGGAGCCACCT	258	258	11	11	0	0	0	0	0	0	0
Db	259	ACGAAATATCTAGCTAGTGCTGATGCTGAAACACATCGGGAGCCACCT	689	689	11	11	0	0	0	0	0	0	0
OY	690	CATAACCTGATCAAAGGAGGGCAGCAAACCTGCGCGCAACTCTGATTCACCTT	318	318	11	11	0	0	0	0	0	0	0
Db	319	CATAACCTGATCAAAGGAGGGCAGCAAACCTGCGCGCAACTCTGATTCACCTT	749	749	11	11	0	0	0	0	0	0	0
OY	750	TATTCATAAACTTGTGGGATTTCAGCTCCGAGCTGTGAGAAATTAGATTCAG	809	809	11	11	0	0	0	0	0	0	0
Db	379	TATTCATAAACTTGTGGGATTTCAGCTCCGAGCTGTGAGAAATTAGATTCAG	809	809	11	11	0	0	0	0	0	0	0
OY	810	GTCGCCAACCTTCCCGCGATCGATGAGATGCGACGACTTGTGGCTTCAAA	438	438	11	11	0	0	0	0	0	0	0
Db	439	GTCGCCAACCTTCCCGCGATGAGATGCGACGACTTGTGGCTTCAAA	859	859	11	11	0	0	0	0	0	0	0
OY	870	GTCAGGACATGAGCTGA	887	887	11	11	0	0	0	0	0	0	0
Db	499	GTCAGGACATGAGCTGA	516	516	11	11	0	0	0	0	0	0	0

Search completed: September 10, 2003, 23:09:38
Job time : 416 secs